

91852,995

? d s

Set	Items	Description
S1	29398	S (EMAIL? OR VOICEMAIL? OR (E OR ELECTRONIC? OR VOICE?) ()MAIL? OR FAX OR FACSIMILE?) (3N) (DEVIC? OR APPARATUS? OR APPLIANC?)
S2	21383	S PAGER? OR ANSWER? ()SERVICE? OR (PAGING? OR BEEPING?) (2N) (DEVIC? OR APPLIANC? OR APPARATUS?) OR BEEPER?
S3	116938	S (COMMUNICAT? OR TELECOMMUNICAT? OR INTERCOMMUNICAT? OR ONLINE?) (2N) (DEVIC? OR APPLIANC? OR APPARATUS?)
S4	442454	S TELEPHONE? OR PHONE? OR CELLPHONE? OR POTS (2N) (DEVIC? OR APPLIANC? OR APPARATUS?)
S5	101862	S (NETWORK? OR TELECOM? OR WIRELESS? OR WIRE ()LESS OR CELLULAR? OR MOBILE? OR INTERNET?) (2N) (DEVIC? OR APPLIANC? OR APPARATUS?)
S6	605963	S S1:S5
S7	45324	S PDA? ? OR BLACKBERRY? OR ELECTRONIC? ()ORGANIZER? OR DIGITAL? ()ASSISTANT?
S8	618154	S S1:S7
S9	104680	S FIRST? OR 1ST OR PRIMARY OR INITIAL? OR ORIGIN? OR LEADOFF? OR CHIEF OR INTRODUCTORY? OR HOST? OR MASTER?
S10	64556	S SENDER? OR SOURCE? OR INITIATING? OR INITIATOR? OR BEGIN? OR COMMENC? OR START?
S11	214081	S RECEIV? OR RECIPIENT? OR DESTINATION? OR ADDRESSEE?
S12	129263	S SECOND? OR 2ND OR ANOTHER OR SUBSIDIAR? OR AUXILIAR? OR DIFFERENT? OR ALTERNAT? OR SLAVE?
S13	79433	S APPLICATION? OR SOFTWARE? OR INTERFACE? OR GUI? ? OR UI
S14	65902	S MANNER? OR TYPE? OR CATEGOR? OR CLASSIFICAT? OR PRIORIT? OR HIERARCH? OR RANK???
S15	39525	S RULE? ? OR PROTOCOL? OR FORMAT?
S16	151	S (ORGANIS? OR ORGANIZ? OR STRUCTUR? OR MENU?) (2N) (PREFERENC? OR CUSTOMI? OR PERSONALI? OR INDIVIDUALI? OR CHARACTERISTIC?)
S17	92629	S CONFORM? OR CONVERSION? OR MODIF? OR CHANGE? OR CHANGING OR MATCH? OR SIMILAR?
S18	15620	S SYNCHRON? OR RECONCIL? OR HARMON? OR CONGRUEN?
S19	48454	S ALTER? OR TRANSFORM? OR APPROPRIAT? OR COMPATIB? OR EQUIVALEN? OR EQUAL? OR TRANSLAT?
S20	1048	S (AUTOMATIC? OR SPONTAN?) (2N) EXECUT? OR IDENTICALIZ? OR IDENTICALIS?
S21	63986	S AMEND? OR REVIS? OR ADAPT? OR CONVERT? OR MIMIC? OR IMITAT?
S22	3394	S COORDINAT?
S23	113356	S USER? OR CLIENT? OR CUSTOMER? OR ENDUSER? OR SURFER? OR NETIZEN?
S24	49441	S ACCOUNT? (2N) HOLDER? OR PATRON? OR MEMBER? OR SUBSCRIBER? OR WEBUSER?
S25	75920	S PARTY? OR PERSON? ? OR INDIVIDUAL? OR PARTIE? OR PRINCIPAL?
S26	432828	S IC=(G06F? OR H04M? OR H04Q? OR H04N? OR H04L? OR H04J?)
S27	352597	S MC=(W01? OR T01? OR W02? OR W04? OR W05?)
S28	522604	S S8 AND S26:S27
S29	618154	S S28 OR S8
S30	4796	S S29 AND S9:S10 (5N) S23:S25 AND S11:S12 (5N) S23:S25
S31	10152	S S29 AND S9:S10 (5N) S1:S7 AND S11:S12 (5N) S1:S7
S32	765	S S30 AND S31
S33	477	S S30:S31 AND S17:S22 (5N) S13:S16
S34	66	S S32 AND S17:S22 AND S13:S16
S35	264	S S33 AND (S17:S22 OR S13:S16) (5N) S9:S10
S36	320	S S34:S35
S37	312	S S36 AND S26:S27
S38	320	S S36:S37
S39	303	S S38 AND (S9:S10 (5N) S1:S7 OR S9:S10 (5N) S13:S16)
S40	152	S S39 AND AC=US/PR
S41	118	S S40 AND AY=(1970:2001)/PR
S42	111	S S40 NOT AY=(2002:2006)/PR
S43	151	S S39 NOT S40
S44	94	S S43 AND PY=1970:2001
S45	73	S S43 NOT PY=2002:2006
S46	214	S S41:S42 OR S44:S45

S47 214 IDPAT *(sorted in duplicate/non-duplicate order)

? show files

[File 347] **JAPIO** Nov 1976-2005/Nov(Updated 060302)

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[File 350] **Derwent WPIX** 1963-2006/UD,UM &UP=200615

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**File 350: For more current information, include File 331 in your search. Enter HELP NEWS 331 for details.*

47/3,K/67 (Item 67 from file: 350) Links

Derwent WPIX

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012554164 **Image available**

WPI Acc No: 1999-360270/199931

XPX Acc No: N99-268408

**Call handling apparatus for telecommunications
network**

Patent Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Inventor: DAHLEN J; LJUNGQVIST P

Number of Countries: 021 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2333417	A	19990721	GB 981063	A	19980119	199931	B
WO 9937079	A1	19990722	WO 98EP8500	A	19981229	199936	
AU 9922768	A	19990802	AU 9922768	A	19981229	199954	
NO 200003680	A	20000918	WO 98EP8500	A	19981229	200058	
			NO 20003680	A	20000718		
EP 1050150	A1	20001108	EP 98966417	A	19981229	200062	
			WO 98EP8500	A	19981229		
EP 1050150	B1	20020327	EP 98966417	A	19981229	200222	
			WO 98EP8500	A	19981229		
DE 69804511	E	20020502	DE 604511	A	19981229	200237	
			EP 98966417	A	19981229		
			WO 98EP8500	A	19981229		
AU 753623	B	20021024	AU 9922768	A	19981229	200277	
GB 2333417	B	20030319	GB 981063	A	19980119	200321	

Priority Applications (No Type Date): GB 981063 A 19980119

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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GB 2333417	A		19	H04M-003/42	
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WO 9937079	A1 E			H04M-003/42	
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Designated States (National): AU NO US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

AU 9922768	A			H04M-003/42	Based on patent WO 9937079
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NO 200003680	A			H04M-000/00	
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EP 1050150	A1 E			H04M-003/42	Based on patent WO 9937079
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Designated States (Regional): DE FI FR GB IE NL SE

EP 1050150	B1 E			H04M-003/42	Based on patent WO 9937079
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Designated States (Regional): DE FI FR GB IE NL SE

DE 69804511	E			H04M-003/42	Based on patent EP 1050150
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Based on patent WO 9937079

AU 753623	B			H04M-003/42	Previous Publ. patent AU 9922768
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Based on patent WO 9937079

GB 2333417	B			H04M-003/42	
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Call handling apparatus for telecommunications

network

Abstract (Basic):

... The apparatus identifies the subscriber types for the calling and called **parties**, **receives** call request data from the calling **party** and also **receives** call response information from the called party. A call connection is made if the subscriber **types** are **equivalent**, or processed in accordance with the difference in the subscriber types.

... reception section (10,11) for receiving call request information from a caller (2) of a **first subscriber type**, for a connection to a called **party** (3) of a **second subscriber type**. The reception section also **receives** call request response information from the called party...

...and the called party, if the call request response information indicates that the second caller **type** is **equivalent** to the **first subscriber type**. The call may processed in dependence on the difference between the **first** and **second subscriber types**, if the call request response information indicates that the **second subscriber type** is not **equivalent** to the **first subscriber type**.

International Patent Class (Main): **H04M-000/00...**

...**H04M-003/42**

International Patent Class (Additional): **H04Q-003/00**

Manual Codes (EPI/S-X): **W01-B02A1...**

...**W01-C02A7A...**

...**W01-C02B6**

(12) UK Patent Application (19) GB (11) 2 333 417 (13) A

(43) Date of A Publication 21.07.1999

(21) Application No 9801063.0

(22) Date of Filing 19.01.1998

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(51) INT CL⁶
H04M 3/42 // H04Q 3/00

(52) UK CL (Edition Q)
H4K KF42 KOD6

(56) Documents Cited
US 5559857 A

(58) Field of Search
UK CL (Edition P) H4K KF42 KOD6
INT CL⁶ H04M 3/42 , H04Q 3/00
ONLINE:WPI

(54) Abstract Title
Telecommunications networks

(57) Apparatus for handling a call in a telecommunications network comprises reception means (10, 11) for receiving call request information from a caller (2) having a first subscriber type for a connection to a called party (3) having a second subscriber type, and for receiving call request response information from the called party, and connection means (10) for connecting the call between the caller and the called party if the call request response information indicates that the second subscriber type is equivalent to the first subscriber type. Alternatively, the call is processed in dependence upon the difference between the first and second subscriber types if the call request response information indicates that the second subscriber type is not equivalent to the first subscriber type.

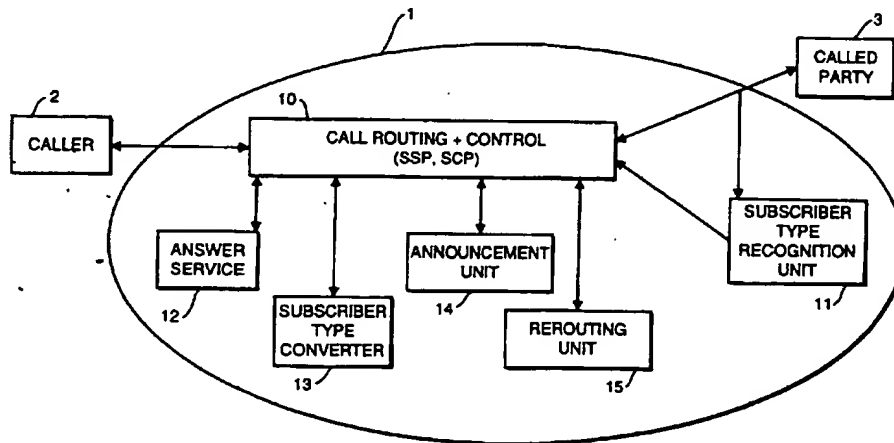


FIG.2

At least one drawing originally filed was informal and the print reproduced here is taken from a later filed formal copy.

GB 2 333 417 A

CLAIMS

1. Apparatus for handling a call in a telecommunications network, the apparatus comprising:
 - reception means for receiving call request
 - 5 information from a caller having a first subscriber type for a connection to a called party having a second subscriber type, and for receiving call request response information from the called party; and
 - connection means for connecting the call between
 - 10 the caller and the called party if the call request response information indicates that the second subscriber type is equivalent to the first subscriber type, or for processing the call in dependence upon the difference between the first and second subscriber
 - 15 types if the call request response information indicates that the second subscriber type is not equivalent to the first subscriber type.
2. Apparatus for handling a call in a telecommunications network between a first subscriber and a second subscriber, the apparatus comprising:
 - 20 means for receiving call request information from the first subscriber;
 - means for sending call information to the second subscriber;
 - 25 means for receiving call request response information from the second subscriber;
 - means for determining first and second subscriber types for the first and second subscribers respectively;
 - 30 means for comparing the first and second subscriber types; and
 - call processing means which is operable, if the first and second subscriber types are equivalent, to connect the call between the first and second
 - 35 subscribers, or, if the first and second subscriber types are not equivalent, to process the call on the

basis of the difference between the first and second subscriber types.

5 3. Apparatus as claimed in claim 1 or 2, wherein when the first subscriber type is a voice call type and the second subscriber type is a tone signalling type, the connection means is operable to reject the call.

10 4. Apparatus as claimed in claim 1 or 2, wherein when the first subscriber type is a voice call type and the second subscriber type is a tone signalling type, the connection means is operable to pass the call to an answering service on which the caller can record a voice message.

15 5. Apparatus as claimed in claim 1 or 2, wherein when the first subscriber type is a voice call type and the second subscriber type is a tone signalling type, the connection means is operable to pass the call to a secondary called party, which secondary called party has a voice call type.

20 6. Apparatus as claimed in claim 1 or 2, wherein when the first subscriber type is a voice call type and the second subscriber type is a facsimile message type, the connection means is operable to transfer the call to a voice signal converter which is operable to convert a voice message a facsimile data message.

25 7. Apparatus as claimed in any one of the preceding claims, wherein the call request information contains an explicit indication of the caller's subscriber type.

30 8. Apparatus as claimed in any one of the preceding claims, wherein the call request response information contains an explicit indication of the called party's subscriber type.

35 9. Apparatus as claimed in any one of claims 1 to 6, further comprising storage means for storing information relating to the respective subscriber types of the caller and the called party, and wherein the

call request information and call request response information include reference data for use in accessing the storage means.

5 10. A method of handling a call in a telecommunications network, the method comprising:
 receiving call request information from a caller having a first subscriber type;
 routing call information to a called party on the basis of the call request, the called party having a
10 second subscriber type;
 receiving call request response information from the called party; and
 connecting the call between the caller and the called party if the call request response information
15 indicates that the second subscriber type is equivalent to the first subscriber type, or processing the call in dependence upon the difference between the first and second subscriber types if the call request response information indicates that the second subscriber type
20 is not equivalent to the first subscriber type..

 11. A method of handling a call in a telecommunications network between a first subscriber and a second subscriber, the method comprising:
 receiving call request information from the first
25 subscriber;
 sending call information to the second subscriber;
 receiving call request response information from the second subscriber;
 determining first and second subscriber types for
30 the first and second subscribers respectively;
 comparing the first and second subscriber types;
 and
 if the first and second subscriber types are equivalent, connecting the call between the first and
35 second subscribers, or
 if the first and second subscriber types are not

equivalent, processing the call on the basis of the difference between the first and second subscriber types.

5 12. A method as claimed in claim 10 or 11, wherein when the first subscriber type is a voice call type, and the second subscriber type is a tone signalling type, the call is rejected.

10 13. A method as claimed in claim 10 or 11, wherein when the first subscriber type is a voice call type, and the second call subscriber is a tone signalling type, the call is passed to an answering service on which the caller can record a voice message.

15 14. A method as claimed in claim 10 or 11, wherein when the first subscriber type is a voice call type, and the second call subscriber is a tone signalling type, the call is passed to a secondary called party, which secondary called party has a voice call type.

20 15. A method as claimed in claim 10 or 11, wherein when the first subscriber type is a voice call type, and the second subscriber type is a facsimile tone type, the call is transferred to a voice signal converter which is operable to convert a voice message to a facsimile data message.

25 16. A method as claimed in any one of claims 10 to 15, wherein the call request information contains an explicit indication of the caller's subscriber type.

30 17. A method as claimed in any one of claims 10 to 16, wherein the call request response information contains an explicit indication of the called party's subscriber type.

35 18. A method as claimed in any one of claims 10 to 15, wherein information relating to the respective subscriber types of the caller and the called party is stored in storage means, and the call request information and call request response information

includes reference data for use in accessing the storage means.

5 19. Apparatus for handling a call in a telecommunications network substantially as hereinbefore described with reference to, and as shown in, the accompanying drawings.

10 20. A method of handling a call in a telecommunications network substantially as hereinbefore described with reference to the accompanying drawings.

47/3,K/39 (Item 39 from file: 350) Links

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013882946 **Image available**

WPI Acc No: 2001-367159/200138

Related WPI Acc No: 2000-490537; 2001-315873; 2001-464660; 2001-529143;
2001-569945; 2001-626183; 2002-026065; 2002-034768; 2002-062571;
2002-205466; 2002-291294; 2002-573435; 2002-691994; 2003-842688;
2003-844197; 2004-347158; 2005-088373; 2005-533526; 2005-533530

XRFX Acc No: N01-267928

**Client and server Internet information services
communications, using compatible and non-Internet
compatible links respectively, using conventional and non
conventional wired, wireless and satellite Internet Protocol
Telephony links**

Patent Assignee: YODLEE.COM INC (YODL-N); DASWANI N (DASW-I); INALA S K
(INAL-I); RAJAN S P (RAJA-I); RANGAN P V (RANG-I); SATYAVOLU R (SATY-I)

Inventor: DASWANI N; INALA S K; RAJAN S P; RANGAN P V; SATYAVOLU R

Number of Countries: 091 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200120510	A1	20010322	WO 2000US23777	A	20000829	200138 B
AU 200073371	A	20010417	AU 200073371	A	20000829	200140
US 6477565	B1	20021105	US 99323598	A	19990601	200276
			US 99398320	A	19990916	
US 20030061307	A1	20030327	US 99398320	A	19990916	200325
			US 2002287911	A	20021104	

Priority Applications (No Type Date): US 99398320 A 19990916; US 99323598 A
19990601; US 2002287911 A 20021104

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200120510	A1	E	35	G06F-017/60	
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Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200073371	A				Based on patent WO 200120510
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US 6477565	B1			G06F-015/16	CIP of application US 99323598
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CIP of patent US 6199077

US 20030061307	A1			G06F-015/16	Cont of application US 99398320
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Cont of patent US 6477565

**Client and server Internet information services
communications, using compatible and non-Internet
compatible links respectively, using conventional and non
conventional wired, wireless and satellite Internet Protocol**

Telephony links

Abstract (Basic):

... System comprises client **communication device** and intermediary server system including **software** between the client **device** and the **Internet**. The server is connected to the Internet by an **Internet-compatible** link where as the client device is connected to the server by a non-Internet **compatible** link called an **Internet Protocol** Telephony link.

... System collects a record (in a first form that is specific to a **client**) from an **individual Internet source** where the record is recorded. The record is then **transformed** to a second **type of application** (other than an Internet browser **application**) which is executable by the client device. The **transformed** record is then transmitted to the **client** device for display in the **second type of application**.

...

...Internet connection and navigation using personal computers, portable laptops, notebooks and personal **digital assistants** (**PDA's**). Also wireless Internet connection for accessing e-mail such as **paggers** and cellular **telephones**.

...

...Broadens the scope of Internet-**source** data types that a computer **communication device** can independently access and **receive** with out requiring hardware or **software modifications**.

...Title Terms: **COMPATIBLE**;

International Patent Class (Main): **G06F-015/16...**

...**G06F-017/60**

Manual Codes (EPI/S-X): **T01-C03B...**

...**T01-H07C5E...**

...**T01-H07C5S...**

...**T01-H07P...**

...**T01-J05A...**

...**T01-J05B3...**

...**T01-M06A1A...**

...**W01-B05A1A...**

...**W02-C03C1A**

47/3,K/51 (Item 51 from file: 350) Links

Derwent WPIX

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013416833 **Image available**

WPI Acc No: 2000-588771/200056

XRPX Acc No: N00-435693

**Self service terminal network for implementing obsolescent
protocol uses terminals coupled to proxy unit by 1st
communication device using 1st protocol,
proxy unit connects terminals by 2nd communication
device with 2nd protocol**

Patent Assignee: NCR INT INC (NATC)

Inventor: MONAGHAN A

Number of Countries: 011 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1022699	A2	20000726	EP 2000300223	A	20000113	200056 B

Priority Applications (No Type Date): GB 991301 A 19990121

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 1022699	A2 E	5	G07F-019/00	

Designated States (Regional): AL DE ES FR GB IT LT LV MK RO SI

**Self service terminal network for implementing obsolescent
protocol uses terminals coupled to proxy unit by 1st
communication device using 1st protocol,
proxy unit connects terminals by 2nd communication
device with 2nd protocol**

Abstract (Basic):

... connected to a proxy unit (14) by a 1st communication mechanism (18,20) implementing a **1st** communications **protocol**. The proxy unit is coupled to the manager unit (12) by a 2nd communications mechanism (22) to implement a 2nd **protocol**, and includes a **translator** enabling the manager unit to communicate with the terminals, and vice versa, on a two...

International Patent Class (Additional): H04L-029/06

Manual Codes (EPI/S-X): T01-H07P...

...W01-A06A...

...W01-A06E2A...

...W01-A06F



(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
26.07.2000 Bulletin 2000/30

(51) Int. Cl.⁷: **G07F 19/00, H04L 29/06**

(21) Application number: **00300223.5**

(22) Date of filing: **13.01.2000**

(84) Designated Contracting States:
DE ES FR GB IT
 Designated Extension States:
AL LT LV MK RO SI

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Dundee DD2 1DS, Scotland (GB)

(30) Priority: **21.01.1999 GB 9901301**

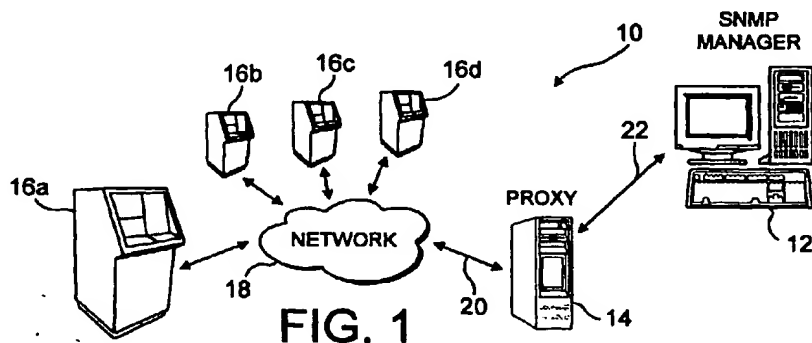
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(71) Applicant:
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Dayton, Ohio 45479 (US)

(54) **Self-service terminal network**

(57) A plurality of self-service terminals (16a,b,c,d) are connected in a network (18) which is connected by a communication link (20) to a proxy unit (14). The network (18) implements an obsolescent (legacy) protocol. A manager unit (12) is provided to monitor the health of the terminals and the manager unit (12) operates under the SNMP standard, which requires that the manager unit (12) communicates through a network operating under a later protocol. To enable two-way communication to take place between the manager unit (12) and the terminal network (18), a proxy unit (14) is provided which is connected both to the terminal network (18) and the TCP/IP network (22). Proxy unit (14) has a table

of addresses, one for each of the terminals (16a,b,c,d) of the terminal network (18) and receives messages from the manager unit (12) sent in IP protocol which are intended for a terminal (16). These messages are translated into a form suitable for transmission over the terminal network (18). Likewise messages from a terminal in legacy format are passed over the terminal network (18) and are received in the proxy unit (14) where they are converted for onward transmission over the IP network (22) to the manager unit (12). Thus the proxy unit (14) is transparent to both the terminal network (18) and the manager unit (12).



munication means is provided by the TCP/IP network 22.

[0016] Thus, it will be appreciated that messages may be conveyed between the ATMs 16 and the proxy unit 14 using a first communications protocol (which may be a proprietary format), and messages may be conveyed between the proxy unit 14 and the manager unit 12 using a second (different) communications protocol (which may be TCP/IP) which supports direct interrogation of terminals.

[0017] Proxy unit 14 is termed "multi-homed" because it maintains a plurality of connections to the TCP/IP network 22. There is a connection for each ATM 16 which is connected to legacy network 18. However, each connection is not necessarily a physical connection; there may be a large number of logical connections (different IP addresses) which require only a small number of physical connections (network cards). Thus, rather than having one network card per IP address, there may only be a single network card installed in the proxy unit 14 for connecting to the TCP/IP network 22. In practice the proxy unit 14 may rely on its operating system to provide the required multiplicity of IP addresses. For example, Windows NT® can be configured with more than 1000 IP addresses, each one of these IP addresses being capable of supporting an ATM 16. The proxy unit 14 maintains a lookup table 14a correlating each IP address with its associated ATM 16.

[0018] The operation of the arrangement of Fig. 1 is described with reference to Fig. 2 in which like parts have like reference numerals to Fig. 1. However Fig. 2 shows proxy unit 14 in more detail. Consider what occurs when SNMP manager unit 12 generates a message intended for ATM 16. This message includes the address of ATM 16 in IP format and is transmitted from manager unit 12 over network 22. Proxy unit 14 maintains multiple IP addresses, there being a unique address for each ATM 16 in network 18, including the address of ATM 16a. The message intended for ATM 16a is therefore received in proxy unit 14, although from the point of view of manager 12 it is considered as having been received by ATM 16a because it was addressed to the IP address of ATM 16a.

[0019] Proxy unit 14 includes means for translating the received message and its address into the proprietary format used by the communication link 20 and legacy network 18. The translated message is then transmitted via the communication link 20 and legacy network 18 to the addressed ATM 16a.

[0020] Each ATM 16 includes SNMP-type agent software (not shown) which receives SNMP commands in the legacy network protocol format, and responds to these commands in the legacy network protocol format.

[0021] From the point of view of ATM 16a receiving the message it appears to come directly from manager 12 but in a format readable by the ATM 16a. Thus proxy unit 14 is invisible or appears transparent both to manager 12 and to ATM 16a, as illustrated in Fig. 3.

[0022] An ATM, for example ATM 16a, may send a message to manager 12. Such a message may be in response to a message it has received or the message may be generated on the initiative of ATM 16a. In either case the message is in the format of the legacy protocol of network 18. The message travels via network 18 and communication link 20 to proxy unit 14. Proxy unit 14 translates the message from legacy protocol format into IP protocol format, and applies the unique IP address associated with the sender unit to the message. The unique IP address associated with each ATM 16 is held by the proxy unit 14 because the ATMs 16 in the legacy network 18 do not have physical IP addresses as they do not implement the TCP/IP protocol. The translated message (which is now in TCP/IP format) is transmitted to manager 12 via the TCP/IP network 22.

[0023] An advantage of the arrangement described above is that since proxy unit 14 is transparent to manager 12 no change or extension to the SNMP standard is required to provide full two-way communication between the manager 12 and the ATMs 16. This means that the proxy unit 14 is interoperable with all SNMP manager units and allows the full SNMP standard to be applied to non-TCP/IP devices without extending the protocol using proprietary extensions. This ensures that the manager 12 can efficiently monitor the state of health of the ATMs 16 and thereby minimise the possibility of operational malfunction and the resulting failure to offer cash or receipt services.

[0024] Various modifications may be made to the above described embodiments. For example, in other embodiments non-cash SSTs may be used rather than ATMs. SSTs may dispense stamps, vouchers, skipasses and such like. The SST units may provide other services than those described above, for example, they may be information kiosks. In practice, there may be many more ATMs 16 included in legacy network 18 than are shown in Fig. 1.

Claims

1. A self-service terminal network (10) comprising a plurality of terminals (16), a proxy unit (14), and a manager unit (12), characterised in that: the terminals (16) are connected to the proxy unit (14) by first communication means (18,20) implementing a first communications protocol; the proxy unit (14) is connected to the manager unit (12) by second communication means (22) implementing a second communications protocol; and the proxy unit (14) includes translation means enabling the manager unit (12) and the terminals (16) to communicate with each other on a two-way basis.
2. The network as claimed in claim 1, wherein the translation means includes means for receiving messages from the manager unit (12) which are intended for a terminal (16), which messages are

sent in accordance with the second protocol, and converting the messages into the first protocol for onward transmission to the terminals (16), and for receiving messages from terminals (16) which are intended for the manager unit (12), which messages are in accordance with the first protocol and converting such messages into the second protocol for onward transmission to the manager unit (12).

3. The network as claimed in either one of the preceding claims in which the proxy unit (14) is transparent to both the manager unit (12) and the terminals (16).
4. The network as claimed in any one of the preceding claims in which the proxy unit (14) holds a multiplicity of addresses, there being a unique address for each of the terminals (16) which addresses are in a form compatible with the second protocol.
5. The network as claimed in any one of the preceding claims in which both the proxy unit (14) and the manager unit (12) are connected in a network (22) operating in accordance with the second protocol.
6. The network as claimed in any one of the preceding claims, wherein the proxy unit (14) includes an operating system providing a plurality of logical addresses, one address for each terminal (16).
7. The network as claimed in any one of the preceding claims, wherein the second protocol is TCP/IP.

47/3,K/29 (Item 29 from file: 350) Links
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014155721 **Image available**
WPI Acc No: 2001-639949/200174
XRPX Acc No: N01-478401

**Correlating, matching mutually supported
protocol characteristics of information system devices involves
them exchanging statements of supported protocols and identifying
commonality**

Patent Assignee: HEWLETT-PACKARD CO (HEWP); HEWLETT-PACKARD DEV CO LP
(HEWP)

Inventor: BECERRA C F; LEYVA R O; NEWELL L B; NEWELL J L B

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 10105946	A1	20011018	DE 10105946	A	20010209	200174	B
US 6668319	B1	20031223	US 2000542125	A	20000404	200408	
DE 10105946	B4	20060119	DE 10105946	A	20010209	200609	

Priority Applications (No Type Date): US 2000542125 A 20000404

Patent Details:

Patent No	Kind	La	Pg	Main IPC	Filing Notes
DE 10105946	A1	15		G06F-013/42	
US 6668319	B1			G06F-001/24	
DE 10105946	B4			G06F-013/42	

**Correlating, matching mutually supported
protocol characteristics of information system devices involves
them exchanging statements of supported protocols and identifying
commonality**

Abstract (Basic):

... by a first device (12A-12C), generating and transmitting a statement to at least a **second** device with which the **first device** is to **communicate** using its supported protocol, **receiving** a statement of a supported protocol from at least one second device and identifying common supported **protocols** from statements received by the **first** device.

... For correlating and **matching** mutually supported **protocol** characteristics of information system equipment...

...drawing shows a block diagram representation of a system using the method of correlating and **matching** mutually supported **protocol** characteristics (Drawing includes non-English text...

International Patent Class (Main): G06F-001/24...

...G06F-013/42

Manual Codes (EPI/S-X): **T01-E01C...**

...**T01-H07B...**

...**T01-H07P**

47/3,K/15 (Item 15 from file: 350) Links

Derwent WPIX

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014959107 **Image available**

WPI Acc No: 2003-019621/200301

XRPX Acc No: N03-015055

**Network computing method using primary device and
secondary device for wireless computer networking obtaining
and displaying Internet content using remote secondary display and
primary handheld computer**

Patent Assignee: 896434 ALBERTA LTD (EIGH-N); META4HAND INC (META-N)

Inventor: CAROLAN J B; FEDORAK M V; LOU E; MILLEY M; MILLEY M E

Number of Countries: 101 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200289441	A1	20021107	WO 2002CA672	A	20020501	200301 B
US 20020186676	A1	20021212	US 2001287381	P	20010501	200301
			US 2002135445	A	20020501	
AU 2002308326	A1	20021111	AU 2002308326	A	20020501	200433
EP 1500244	A1	20050126	EP 2002766596	A	20020501	200508
			WO 2002CA672	A	20020501	
KR 2004106434	A	20041217	WO 2002CA672	A	20020501	200527
			KR 2004717573	A	20041101	
JP 2005516266	W	20050602	JP 2002586603	A	20020501	200541
			WO 2002CA672	A	20020501	

Priority Applications (No Type Date): US 2001287381 P 20010501; US
2002135445 A 20020501

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200289441	A1	E	71	H04L-029/06	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA

CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN

IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ

OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU

ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR

IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

US 20020186676	A1			H04J-003/06	Provisional application US 2001287381
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AU 2002308326	A1			H04L-029/06	Based on patent WO 200289441
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EP 1500244	A1	E		H04L-029/06	Based on patent WO 200289441
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

KR 2004106434	A			H04L-029/06	
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JP 2005516266	W		38	G06F-013/00	Based on patent WO 200289441
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**Network computing method using primary device and
secondary device for wireless computer networking obtaining**

and displaying Internet content using remote secondary display and
primary handheld computer

Abstract (Basic):

∴ The method involves establishing a wireless two-way communication connection between a **primary** device and a secondary **device**. A **wireless network** connection is established between the **primary** device and a computer network. Command data is generated for **synchronizing** the **secondary** device with the **primary** device. **User** input commands are **received** and transmitted as **interface** data from the **primary** device to the secondary device. Data and data requests generated by the secondary device are...

International Patent Class (Main): **G06F-013/00...**

...**H04J-003/06...**

...**H04L-029/06**

International Patent Class (Additional): **H04L-012/28**

Manual Codes (EPI/S-X): **T01-N02A2...**

...**T01-S03...**

...**W01-A06B5A...**

...**W01-A06C4...**

...**W01-A06E1**

47/3,K/71 (Item 71 from file: 350) Links

Derwent WPIX

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012348048 **Image available**

WPI Acc No: 1999-154155/199913

XRPX Acc No: N99-111120

**Method for processing multiple types of communication via
single system**

Patent Assignee: NORTHERN TELECOM LTD (NELE); NORTEL NETWORKS LTD (NELE)

Inventor: BRODY G; CHENG Z K; CHENG Z

Number of Countries: 079 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9907116	A1	19990211	WO 98US14832	A	19980715	199913 B
AU 9884941	A	19990222	AU 9884941	A	19980715	199927
US 6278697	B1	20010821	US 97902056	A	19970729	200150

Priority Applications (No Type Date): US 97902056 A 19970729

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9907116	A1	E	49	H04L-012/56	
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Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GE GH GM HU ID IL IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL OA PT SE

AU 9884941	A	H04L-012/56	Based on patent WO 9907116
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US 6278697	B1	H04B-007/00	
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Abstract (Basic):

... If **1st communications device** uses a
different communications protocol than 2nd messages transceived
between the two devices are **converted** by an **appropriate**
communication **protocol**, by **first converting** an
incoming message with **1st protocol** into message with
generic communication protocol **format**. This latter message is
then **converted** into a message with a 2nd protocol format which
is routed to the **2nd communication device**.

... Allows for the **conversion** of telecommunications
protocols in a **manner** that permits **communication**
between **devices** that utilize **different** protocols and
reduces communication overhead over the PSTN...

...International Patent Class (Main): **H04L-012/56**

International Patent Class (Additional): **H04L-029/06**

Manual Codes (EPI/S-X): **W01-B05A1A...**

...W02-C03C1A

47/3,K/2 (Item 2 from file: 350) Links

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011672306 **Image available**

WPI Acc No: 1998-089215/**199809**

Related WPI Acc No: 1998-253232

XRPX Acc No: N98-070830

**Peripheral interface for connecting appts such as desktop
and portable computer and printer - operatively interconnects host
interface device first external interface device and
second external interface device such as to permit communication flow
through any pairing of these interface device**

Patent Assignee: HEWLETT-PACKARD CO (HEWP)

Inventor: MARTINELLI R; MATHES G

Number of Countries: 023 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 821505	A1	19980128	EP 96410082	A	19960725	199809 B
US 6098138	A	20000801	US 97893708	A	19970711	200039

Priority Applications (No Type Date): EP 96410082 A 19960725

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 821505	A1	E	15	H04L-012/00	
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Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI
LT LU LV MC NL PT SE SI

US 6098138	A			G06F-013/38	
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... **operatively interconnects host interface
device first external interface device and second external
interface device such as to permit communication flow through any pairing**
...

...Abstract (Basic): The device has **host interface** device for
interfacing the **communications device** with the main
processing functionality of the apparatus. A **first** external
interface device provides external communication according to a
first protocol scheme. A **second external interface
device** provides external **communication** according to a
second protocol scheme different from the **first
protocol** scheme. An interconnection device operatively
interconnects the **host interface** device the **first
external interface** device and the second external interface
device such as to permit a communication flow through any pairing of
these **interface** device. The **first** and second external
interface device and the interconnection device together are
operative to support a the communication flow between and through the

first and second external **interface** device, with
translation between the **protocol** schemes, without
involving the main processing functionality of the apparatus...
International Patent Class (Main): **G06F-013/38**...

...**H04L-012/00**

International Patent Class (Additional): **H04L-029/10**

Manual Codes (EPI/S-X): **T01-H07C5**...

...**T01-M02A1C**...

...**W01-A06F**...

...**W01-A06G3**

47/3,K/133 (Item 133 from file: 350) Links
Derwent WPIX
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009967305 ****Image available****
WBI Acc No: 1994-235018/199428
XRPX Acc No: N94-185751

Facsimile transmission in digital wireless communication system - Uses protocol converters to establish communication between facsimile units in respective PSTN and digital cellular networks.

Patent Assignee: MOTOROLA INC (MOTI)
Inventor: AVERBUCH N; WILSON T J
Number of Countries: 005 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9415433	A1	19940707	WO 93US11122	A	19931117	199428	B
GB 2278753	A	19941207	WO 93US11122	A	19931117	199501	
			GB 9414946	A	19940725		
US 5369501	A	19941129	US 92993992	A	19921221	199502	
JP 7504309	W	19950511	WO 93US11122	A	19931117	199527	
			JP 94515147	A	19931117		
GB 2278753	B	19970604	WO 93US11122	A	19931117	199725	
			GB 9414946	A	19940725		
KR 150248	B1	19981015	KR 94702905	A	19940820	200026	
CA 2128884	C	20000912	CA 2128884	A	19931117	200053	
			WO 93US11122	A	19931117		

Priority Applications (No Type Date): US 92993992 A 19921221

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9415433	A1	E	28	H04N-001/00	
Designated States (National): CA GB JP KR					
GB 2278753	A		1	H04N-001/00	Based on patent WO 9415433
US 5369501	A		8	H04N-001/00	
JP 7504309	W		1	H04N-001/32	Based on patent WO 9415433
GB 2278753	B			H04N-001/00	Based on patent WO 9415433
KR 150248	B1			H04N-001/00	
CA 2128884	C	E		H04N-001/32	Based on patent WO 9415433

... **Uses protocol converters to establish communication between facsimile units in respective PSTN and digital cellular networks.**

...Abstract (Basic): method provides facsimile communications between facsimile units (107,103) in respective mobile radio and wired telephone networks. It inserts a **first protocol converter** (104) between the networks and uses a predetermined interfacing protocol to establish communication between it...

...between a facsimile unit (107) and an interconnected communication unit (114). The communication unit performs **protocol conversion** between the facsimile unit and the mobile network. A third interfacing protocol is used to establish communication between the communication unit (114) and the **protocol converter** (104...

...r.f. digital communication systems. Provides error free bi-directional transmission between mobile and fixed **facsimile devices**.

...Abstract (Equivalent): the method comprises the steps of (a) coupling the wireless communication system with a wireline **telephone** system via **first protocol converter**, wherein the **first protocol converter converts** a facsimile **protocol** of the wireline **telephone** system to a facsimile protocol of the wireless communication system and vice versa, (b) coupling...

...one communication unit to a mobile facsimile unit, wherein the at least one communication unit **converts** the facsimile **protocol** of the wireless communication system to a facsimile protocol of the mobile facsimile unit and vice versa, wherein the facsimile protocol of the wireline **telephone** system or a DTE/DCE facsimile protocol, (c) upon initiation of a facsimile transmission between the mobile facsimile unit and a facsimile unit coupled to the wireline **telephone** system, establishing communication between the **first protocol converter** and the facsimile unit coupled to the wireline **telephone** system based on the facsimile protocol of the wireline **telephone** system, (d) upon initiation of the facsimile transmission between the mobile facsimile unit and the facsimile unit coupled to the wireline **telephone** system, establishing communication between the mobile facsimile unit and the at least one communication unit...

...facsimile transmission between the mobile facsimile unit and the facsimile unit coupled to the wireline **telephone** system, establishing communication between the at least one communication unit and the **first protocol converter** based on the facsimile **protocol** of the wireless communication system...

...Abstract (Equivalent): The method comprises the steps of coupling the wireless communication system with a wireline **telephone** system via a **first protocol converter**, where the **first protocol converter converts** a predetermined interfacing **protocol** of the wireline **telephone** system to a **second** predetermined interfacing protocol of the wireless communication system and vice versa. It then involves coupling...

...one communication unit to a first facsimile unit, where the at least one communication unit **converts** the second predetermined interfacing **protocol** to one of the predetermined interfacing **protocol** and a **first** predetermined interfacing **protocol** of the

first facsimile unit and vice versa...

...transmission between the first facsimile unit and a second facsimile unit coupled to the wireline **telephone** system, it involves establishing communication between the **first protocol converter** and the second facsimile unit based on the predetermined interfacing protocol. Upon initiation of the...

...facsimile unit and the at least one communication unit using one of the predetermined interfacing **protocol** and the **first** predetermined interfacing **protocol**. (ATF in week 9502/ Reprinted in week 9515...

International Patent Class (Main): **H04N-001/00**...

...**H04N-001/32**

...International Patent Class (Additional): **H04L-029/06**

Manual Codes (EPI/S-X): **W02-J03C2**...

...**W02-J03C7**...

...**W02-J08**

47/3,K/110 (Item 110 from file: 350) Links
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010563084 **Image available**
WPI Acc No: 1996-060037/199607
XRPX Acc No: N96-050062

**Communication system merging paging apparatus
into PBX communication environment - using paging network to
inform user upon receipt of incoming facsimiles, E-mail messages and
voice mail messages**

Patent Assignee: SIEMENS ROLM COMMUNICATIONS INC (SIEI); MITSUBISHI
ELECTRIC CORP (MITQ); SIEMENS BUSINESS COMMUNICATION SYSTEMS INC (SIEI
) ; ROLM CO (ROLM-N)

Inventor: ARLEDGE C L; JACKSON T R; IMAI Y; NAKAGAWA T

Number of Countries: 006 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 691777	A2	19960110	EP 95109037	A	19950612	199607 B
US 5561703	A	19961001	US 94271323	A	19940706	199645
CN 1121293	A	19960424	CN 95108156	A	19950706	199745
CN 1098603	C	20030108	CN 95108156	A	19950706	200532
CN 1121293	C	20030917	CN 2000808804	A	20000515	200552

Priority Applications (No Type Date): US 94271323 A 19940706

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 691777	A2	E	11	H04M-003/50	
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Designated States (Regional): DE FR GB IT

US 5561703	A	10	H04Q-007/06
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CN 1121293	A		H04Q-007/10
------------	---	--	-------------

CN 1098603	C		H04Q-007/06
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CN 1121293	C		B23H-007/18
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Communication system merging paging apparatus

into PBX communication environment...

...Abstract (Basic): The system has a private branch exchange for connecting internal **telephone** exchanges, an outside **telephone** network, at least one **application** server and a paging system. The system includes a paging server and an end user **paging device**.

...The **application** server and paging server are operatively coupled via the PBX, enabling the receipt of a message by the **application** server to be indicated to the user of the end user **paging device**. The system uses a voice response unit, and callers are informed of their options and instructed how to complete

their communication. Pref., the **application** server is a facsimile server, a **phone** mail server or an E-mail server
...Abstract (Equivalent): a private branch exchange for connecting internal **telephone** exchanges, an outside **telephone** network, a plurality of **application** servers and a paging system...

...an end user **paging device**;

...

...said plurality of **application** servers including a **first application** server of a **first type** and a second **application** server of a second **type**;

...

...said **first** and second **application** servers and said paging server being operatively coupled via said private branch exchange, enabling the receipt of messages by said **first** and second **application** servers to be indicated to a user of said end user **paging device**;

...

...said end user **paging device** including **first** and **second** visual indicating means, wherein the receipt of a message by said **first application** server actuates said **first** visual indicating means and said receipt of a message by said second **application** server actuates said second visual indicating means, said first and second visual indicating means provide visual signals distinguishable from one another, wherein a received message by said **first application** server will illuminate a **first** visual signal and a received message by said second **application** server will illuminate a second visual signal such that the receipt of a message by the **first application** server is distinguishable from the receipt of a message by the **second application** server by the user; and...

...said end user **paging device** further includes a visual display providing visual signals separate from the first and second visual...

...for displaying information relating to the origination of a message received by one of said **first** or second **application** servers or an **alternate source**.

...International Patent Class (Main): **H04M-003/50**...

...**H04Q-007/06**...

...**H04Q-007/10**

...International Patent Class (Additional): **H04M-001/64**...

...**H04M-003/42**...

...**H04M-011/02**

Manual Codes (EPI/S-X): T01-H07C...

...W01-A06B5A...

...W01-A06E1...

...W01-A06G2...

...W01-A06X...

...W01-C02B7C...

...W01-C02D...

...W01-C02G5...

...W01-C05A...

...W01-C05B1C...

...W05-A05C2

47/3,K/98 (Item 98 from file: 350) Links

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011341458 **Image available**

WPI Acc No: 1997-319363/199729

XRPX Acc No: N97-264414

Call validating system for subscribers using calling cards -
routes query on validity of account number or number on calling card,
from one telecommunications service provider to another, even if
signalling protocols of respective service providers are different

Patent Assignee: MCI CORP (MCIM-N)

Inventor: EVERETT D A; KULT G M; LEOPOLD G W; SEYDEL L C; VIJAY P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5638431	A	19970610	US 95431518	A	19950501	199729 B

Priority Applications (No Type Date): US 95431518 A 19950501

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5638431	A	46	H04M-003/22	

...Abstract (Basic): the first service providers, who are using the calling cards at a geographic area where **telephone** services are provided by a **second** service provider using a second communications protocol. The gateway reformats the queries to be usable...

...USE/ADVANTAGE - E.g. for **converting first** signalling protocol of **first telephone** service provider to **second protocol** which is **compatible** with **different telephone** service provider. Enables **telephone** service provider to validate account numbers of its subscribers even if subscribers originate calls from...

International Patent Class (Main): **H04M-003/22**

International Patent Class (Additional): **H04M-003/00...**

...**H04M-007/00...**

...**H04M-015/00**

Manual Codes (EPI/S-X): **W01-C02A7A...**

...**W01-C02B6A...**

...**W01-C02D**

47/3,K/93 (Item 93 from file: 350) Links
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011407728 **Image available**
WPI Acc No: 1997-385635/199735
XRPX Acc No: N97-321013

**Facsimile transmission system for sending facsimile via
Internet - transmits facsimile formatted data via telephone
network to facsimile-server and encapsulates it in Internet packet using
Internet protocol for transmission, and destination-server receives it
and converts back to facsimile format**

Patent Assignee: I-LINK WORLDWIDE INC (ILIN-N)
Inventor: RADULOVIC A; WILKES T C; WILKES T
Number of Countries: 070 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9726753	A1	19970724	WO 97US730	A	19970114	199735 B
AU 9717497	A	19970811	AU 9717497	A	19970114	199747

Priority Applications (No Type Date): US 96585628 A 19960116

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9726753	A1	E	57	H04N-001/00	
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Designated States (National): AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE
DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE
LS LU MC MW NL OA PT SD SE SZ UG

AU 9717497	A			H04N-001/00	Based on patent WO 9726753
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... **transmits facsimile formatted data via telephone
network to facsimile-server and encapsulates it in Internet packet using
Internet protocol for transmission, and destination-server receives it
and converts back to facsimile format**

...Abstract (Basic): The system includes an originating facsimile unit (10)
for transmitting data **formatted** as a facsimile via a
first switched **telephone** network. An **originating**
facsimile server terminal (12) receives the data via the network, and
encapsulates it within an...

...transmitted facsimile and de-encapsulates the packet encapsulation
process, and transmits the facsimile via a **second** switched
telephone network. A **receiving** facsimile unit (18)
receives the facsimile via the **second** switched **telephone**
network. The **originating** facsimile unit and the receiving unit
are facsimile machines designed to transmit and **receive**
facsimile via a switched **telephone** network...

...USE - For **communication** between **devices** that are not
Internet ready because they lack required Internet communication
protocols...

...Enables communication between fax machines over Internet as opposed to
using conventional long distance switched **telephone** network
lines. Translates facsimile message into e-mail message format for
delivery to e-mail address on Internet and **converting** received
message to facsimile **format**.

...Title Terms: **TELEPHONE**;

International Patent Class (Main): **H04N-001/00**

...International Patent Class (Additional): **H04M-011/00**...

...**H04N-001/32**...

...**H04N-001/40**

Manual Codes (EPI/S-X): **W01-A06B7**...

....**W01-A06F**...

...**W01-C05B1C**...

...**W01-C05B3**...

...**W02-J03C2**...

...**W02-J08**

47/3,K/87 (Item 87 from file: 350) Links

Derwent WPIX

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011690778 **Image available**

WPI Acc No: 1998-107688/199810

XRPX Acc No: N98-086669

**Communication protocol automatic selection method for
process-control apparatus used in controlling monitoring device - by
selecting protocol, which adapts communication, from
several protocols based on response for signal transmitted from
one communication apparatus during first-stage
communication operation**

Patent Assignee: TOSHIBA KK (TOKE)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9331368	A	19971222	JP 96149305	A	19960611	199810 B

Priority Applications (No Type Date): JP 96149305 A 19960611

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9331368	A	10	H04L-029/06	

... by selecting protocol, which adapts
communication, from several protocols based on response for signal
transmitted from one communication apparatus during
first-stage communication operation

...Abstract (Basic): The method involves providing several protocols to one
communication apparatus when communication is
performed between communication apparatuses with
different protocols...

...A signal is sent from one communication apparatus during
first-stage communication operation. The protocol, which
adapts communication, is chosen from several protocols
and used based on the response for the sent signal...

...ADVANTAGE - Selects and uses protocol which adapts
communication between communication apparatuses,
automatically...

International Patent Class (Main): H04L-029/06

Manual Codes (EPI/S-X): W01-A07G

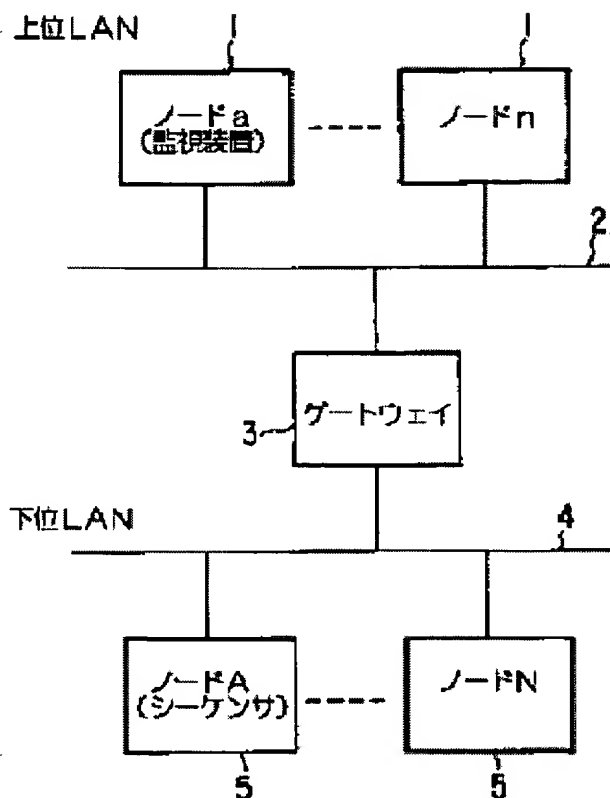
COMMUNICATION PROCEDURE AUTOMATIC SELECTION METHOD

Patent number: - JP9331368
Publication date: 1997-12-22
Inventor: TAKAHASHI YASUO
Applicant: TOKYO SHIBAURA ELECTRIC CO
Classification:
 - International: **H04L29/06; H04L29/06; (IPC1-7): H04L29/06**
 - european:
Application number: JP19960149305 19960611
Priority number(s): JP19960149305 19960611

Report a data error here

Abstract of JP9331368

PROBLEM TO BE SOLVED: To simply build up a gateway by selecting and using automatically a device making communication with an object device and a protocol in matching with the object device. **SOLUTION:** A host LAN where nodes a-n being nodes 1 are connected to a transmission line 2 and a subordinate LAN where nodes A-N being nodes 5 are connected to a transmission line 4. The gateway 3 connects the host LAN and the subordinate LAN in which transmission signals are sent by different protocols and the protocol is converted in matching with the inter-system protocol. A plurality of protocol software sets are mounted on the gateway 3 and signals are sent sequentially to the nodes 5 according to a plurality of protocol softwares and the protocol available of communication with the nodes 5 is selected. Thus, a device in communication with an object node and the protocol in matching with the node are selected and used automatically.



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47/3,K/45 (Item 45 from file: 350) Links

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013797253 **Image available**

WPI Acc No: 2001-281465/200129

XPX Acc No: N01-200721

Interdevice communication system e.g. for home electronic bus system, has gateway device of one group of devices with proxy representation software about operational feature of other group of devices for interaction

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG); HILLIER P V (HILL-I); LANIGAN P J (LANI-I); SHEPHERD N B (SHEP-I)

Inventor: HILLIER P V; LANIGAN P J; SHEPHERD N B

Number of Countries: 095 Number of Patents: 015

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200119032	A1	20010315	WO 2000EP8449	A	20000830	200129 B
AU 200074148	A	20010410	AU 200074148	A	20000830	200137
BR 200007079	A	20010731	BR 20007079	A	20000830	200146
			WO 2000EP8449	A	20000830	
EP 1127427	A1	20010829	EP 2000962407	A	20000830	200150
			WO 2000EP8449	A	20000830	
CZ 200101592	A3	20020116	WO 2000EP8449	A	20000830	200215
			CZ 20011592	A	20000830	
KR 2001090828	A	20011019	KR 2001705712	A	20010507	200221
HU 200104846	A2	20020328	WO 2000EP8449	A	20000830	200234
			HU 20014846	A	20000830	
CN 1337109	A	20020220	CN 2000802642	A	20000830	200235
MX 2001004587	A1	20010701	MX 20014587	A	20010507	200236
JP 2003509905	W	20030311	WO 2000EP8449	A	20000830	200319
			JP 2001522726	A	20000830	
TW 525360	A	20030321	TW 2000107363	A	20000419	200365
US 20050089065	A1	20050428	US 2004994924	A	20041122	200530
EP 1127427	B1	20050608	EP 2000962407	A	20000830	200543
			WO 2000EP8449	A	20000830	
DE 60020669	E	20050714	DE 20669	A	20000830	200549
			EP 2000962407	A	20000830	
			WO 2000EP8449	A	20000830	
US 6954467	B1	20051011	US 2000656130	A	20000906	200567

Priority Applications (No Type Date): GB 9921049 A 19990907

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200119032 A1 E 20 H04L-012/28

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH
CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU
SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200074148 A H04L-012/28 Based on patent WO 200119032

BR 200007079	A	H04L-012/28	Based on patent WO 200119032
EP 1127427	A1 E	H04L-012/28	Based on patent WO 200119032
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT			
LI LT LU LV MC MK NL PT RO SE SI			
CZ 200101592	A3	H04L-012/28	Based on patent WO 200119032
KR 2001090828	A	H04L-012/28	
HU 200104846	A2	H04L-012/28	Based on patent WO 200119032
CN 1337109	A	H04L-012/28	
MX 2001004587	A1	H04L-012/28	
JP 2003509905	W 21	H04L-012/46	Based on patent WO 200119032
TW 525360	A	H04L-012/28	
US 20050089065	A1	H04J-001/00	
EP 1127427	B1 E	H04L-012/28	Based on patent WO 200119032
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI			
LU MC NL PT SE			
DE 60020669	E	H04L-012/28	Based on patent EP 1127427
			Based on patent WO 200119032
US 6954467	B1	H04J-003/16	

Abstract (Basic):

... Gateway devices (19,21) of **first** and **second** group of **devices** (10,20) **communicating** in accordance with respective protocol, are linked via RF wireless data channel (41). The gateway device of **first** group device, stores proxy representation **software** about device control modules of second group devices. **First** group device interacts with stored **software** instead of directly interacting with second group device.

... An INDEPENDENT CLAIM is also included for **communication device**.

...

...devices, since the gateway device of each cluster supports two or more sets of communication **protocols** and can **translate** messages between them. Since proxy representation software of device control modules of second group of device is provided to gateway device of **first** group of **devices**, effective **communication** interaction and control between two group devices without any limitation in communication parameters such as...

...The figure shows the arrangement of **communication devices** forming three linked clusters

International Patent Class (Main): H04J-001/00...

...H04J-003/16...

...H04L-012/28...

...H04L-012/46

International Patent Class (Additional): H04L-012/44

Manual Codes (EPI/S-X): W01-A06B1...

...W01-A06B5A...

...W01-A06F...

...W01-A06G3...

...W01-A07H2...

...W05-D03E...

...W05-D07A

47/3,K/43 (Item 43 from file: 350) Links
Derwent WPIX
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013870193 **Image available**

WPI Acc No: 2001-354405/200137

XRPX Acc No: N01-257478

**Data file recognition and conversion system for use in
internet, changes format of data file, transmitted from
server to user computer, from one format to other**

Patent Assignee: TRIBUTE INT CORP (TRIB-N)

Inventor: SHAPIRO B A; TODARO D

Number of Countries: 091 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200077595	A2	20001221	WO 2000US40194	A	20000609	200137 B
AU 200071318	A	20010102	AU 200071318	A	20000609	200137

Priority Applications (No Type Date): US 99329477 A 19990610

Patent Details:

Patent No	Kind	Int	Pg	Main IPC	Filing Notes
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WO 200077595	A2	E	26	G06F-000/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH
CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HU ID IL IN IS JP KE KG
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD
SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200071318	A			G06F-000/00	Based on patent WO 200077595
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**Data file recognition and conversion system for use in
internet, changes format of data file, transmitted from
server to user computer, from one format to other**

Abstract (Basic):

... A software **receives** input from **user** computer
(100). Input indicates name of data file comprising data in
first format to include in the **first** file. The
first file is generated in the **user** computer and
transmitted to server computer (120). The data file is transmitted from
the server computer to user computer where the data in the data files
are **converted** from **first** data **format** to second
data **format**.

... An INDEPENDENT CLAIM is also included for a method for
generating first file on a **first** computer based on **user's**
input at **second** computer...

...For designing web **pager** that automatically recognize the format
in which a data file to be used on a...

International Patent Class (Main): **G06F-000/00**

Manual Codes (EPI/S-X): T01-D02...

...T01-H07C3C...

....T01-H07C5E...

...T01-J11C1

47/3,K/42 (Item 42 from file: 350) Links

Derwent WPIX

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013872015 **Image available**

WPI Acc No: 2001-356227/**200138**

XRFX Acc No: N01-258863

**Bridge apparatus e.g. for warehouse inventory control system
for interfacing between wired network having wired communication
devices and wireless devices of different
types or modalities without need for protocol conversion**

Patent Assignee: TEKLOGIX INT INC (TEKL-N)

Inventor: BUCCINO J H; DOYLE M A; VANDERVECHT R P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2281009	A1	20010226	CA 2281009	A	19990826	200138 B

Priority Applications (No Type Date): CA 2281009 A 19990826

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2281009	A1	E	26	H04L-012/66	

**... apparatus e.g. for warehouse inventory control system for
interfacing between wired network having wired communication
devices and wireless devices of different
types or modalities without need for protocol conversion**

Abstract (Basic):

... wired network (12) interface for interfacing data communication
between the bridge apparatus and the wired **communication
devices** of the wired network. Two types of radio interface data
communication between the bridge apparatus and the two types of
wireless device (14). A bridge controller controls data
traffic between the wired network and the **first** and
second type wireless devices. The bridge
controller functions in a **first** mode using the **first
type** radio when data is transmitted from or destined for the
first type wireless device, and functions in a
second mode using the second type radio when data is transmitted
from or destined for the **second type wireless
device**.

... An INDEPENDENT CLAIM is included for a method of bridging
between a wired **network** and **wireless devices** of
different types or modalities...

... For interfacing or bridging between wired network having wired
communication devices and **wireless devices**,

e.g. for use in warehouse inventory control system...

...Apparatus can bridge a wired network and a number of **wireless devices** of **different types** or modalities, without performing **protocol conversion**, and while being simple...

...**wireless devices** (14

International Patent Class (Main): **H04L-012/66**

Manual Codes (EPI/S-X): **W01-A06C2...**

...**W01-A06C4...**

...**W01-A06G3**

47/3,K/17 (Item 17 from file: 350) Links

Derwent WPIX

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014871119 **Image available**

WPI Acc No: 2002-691825/200274

XRPX Acc No: N02-545745

**Establishing secure link between user communications device
and first service communications device by authenticating
first communications protocol using pre-configured trust
relation between user and service communications device**

Patent Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF); GEHRMANN C
(GEHR-I)

Inventor: GEHRMANN C

Number of Countries: 101 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200273874	A2	20020919	WO 2002EP1330	A	20020207	200274 B
EP 1233570	A1	20020821	EP 2001610011	A	20010216	200274
EP 1360794	A2	20031112	EP 2002711850	A	20020207	200377
			WO 2002EP1330	A	20020207	
KR 2003074826	A	20030919	KR 2003710652	A	20030813	200409
AU 2002231787	A1	20020924	AU 2002231787	A	20020207	200433
US 20040128509	A1	20040701	WO 2002EP1330	A	20020207	200444
			US 2004467511	A	20040202	

Priority Applications (No Type Date): US 2001269331 P 20010220; EP
2001610011 A 20010216

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200273874 A2 E 46 H04L-009/08

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU
ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

EP 1233570 A1 E H04L-009/08

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

EP 1360794 A2 E H04L-009/08 Based on patent WO 200273874

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

KR 2003074826 A H04L-029/06

AU 2002231787 A1 H04L-009/08 Based on patent WO 200273874

US 20040128509 A1 H04L-009/00

Establishing secure link between user communications device

and first service communications device by authenticating first communications protocol using pre-configured trust relation between user and service communications device

Abstract (Basic):

... The method involves storing a second identification key in a first storage device of a user communications device and in a second storage device of a first service communications device. A first communications protocol is authenticated using a pre-configured trust relation between the user communications device and the corresponding first or second service communications device.

... b) a mobile communication device adapted to establish a wireless communication link with a first service communication device (...)

...c) a method of establishing a secure communication link a between the user communication device and a first service communication device. (...)

...For establishing a wireless communications link between a user communications device and a service communications device.

...Title Terms: **PROTOCOL;**

International Patent Class (Main): **H04L-009/00...**

...**H04L-009/08...**

...**H04L-029/06**

International Patent Class (Additional): **H04L-029/06**

Manual Codes (EPI/S-X): **T01-N02A2...**

...**T01-N02B1B...**

...**T01-S03...**

...**W01-A05A...**

...**W01-A07G...**

...**W01-B05A1A...**

...**W01-C01D3C...**

...**W01-C01G6E...**

...**W02-C03C1A**

47/3,K/3 (Item 3 from file: 350) Links

Derwent WPIX

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017208443 **Image available**

WPI Acc No: 2005-532060/200554

Related WPI Acc No: 2006-107428

XRPX Acc No: N05-435647

.Notification message sending method in wireless communication system, involves identifying user by converting telephone destination number of second format, in notification message having telephone number in first format

Patent Assignee: LOCKWOOD R J (LOCK-I)

Inventor: LOCKWOOD R J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050157857	A1	20050721	US 2000605855	A	20000629	200554 B
			US 200580536	A	20050316	

Priority Applications (No Type Date): US 2000605855 A 20000629; US 200580536 A 20050316

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20050157857	A1	7	H04M-001/64	Cont of application US 2000605855

... involves identifying user by converting telephone destination number of second format, in notification message having telephone number in first format

Abstract (Basic):

... The destination telephone number in second format is converted to first format, based on execution of selected mapping rule, by matching mapping rule with portion of number in second format using prescribed pattern, in response to obtained message in second format. The notification message (12) having destination number in first format is output to messaging server, based on which the user is identified.

... For sending notification message to subscriber destination telephone number in wireless telephone communication system, voice mail system and paging system...

...Resolves incompatibilities between telephone formats between a notification system and messaging server without reconfiguring the telephone number within the notification system or server...

...cell phone (18...

...Title Terms: TELEPHONE;

International Patent Class (Main): **H04M-001/64**
Manual Codes (EPI/S-X): **W01-B05A1A...**

...**W01-B05A1F...**

...**W01-C02B7C...**

...**W01-C02B7D**

47/3,K/30 (Item 30 from file: 350) Links

Derwent WPIX

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014126744 **Image available**

WPI Acc No: 2001-610954/200170

Related WPI Acc No: 2001-328378; 2001-374268; 2001-536077; 2001-536080;
2001-536091; 2001-589563; 2001-610952; 2005-381365; 2005-477356;
2005-519291

XRPX Acc No: N01-456081

**Communication establishing method between server and client
applications in virtual port multiplexing system, involves receiving data
sent to initial port from client application, in
allocated port**

Patent Assignee: EJASSENT INC (EJAS-N); HIPP B A (HIPP-I); VERITAS OPERATING
CORP (VERI-N)

Inventor: HIPP B A

Number of Countries: 094 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200126267	A1	20010412	WO 2000US27596	A	20001005	200170 B
AU 200079962	A	20010510	AU 200079962	A	20001005	200170
US 6859835	B1	20050222	US 99157727	P	19991005	200515
			US 99157728	P	19991005	
			US 99157729	P	19991005	
			US 99157833	P	19991005	
			US 99157834	P	19991005	
			US 2000684457	A	20001005	
US 20050111364	A1	20050526	US 99157727	P	19991005	200535
			US 99157728	P	19991005	
			US 99157729	P	19991005	
			US 99157833	P	19991005	
			US 99157834	P	19991005	
			US 2000684457	A	20001005	
			US 200423172	A	20041227	

Priority Applications (No Type Date): US 99157834 P 19991005; US 99157727 P
19991005; US 99157728 P 19991005; US 99157729 P 19991005; US 99157833 P
19991005; US 2000684457 A 20001005; US 200423172 A 20041227

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200126267 A1 E 32 H04J-003/02

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200079962 A

US 6859835 B1 G06F-015/16

Based on patent WO 200126267

Provisional application US 99157727

Provisional application US 99157728

Provisional application US 99157729

US 20050111364 A1 H04L-001/00 Provisional application US 99157833
Provisional application US 99157834
Provisional application US 99157727

Provisional application US 99157728
Provisional application US 99157729
Provisional application US 99157833
Provisional application US 99157834
Cont of application US 2000684457
Cont of patent US 6859835

... between server and client applications in virtual port
multiplexing system, involves receiving data sent to initial port
from client application, in allocated port

Abstract (Basic):

... A connection from one of client **application** (162a-162d)
is accepted on **initial** port (9000), after which port (12760) is
allocated to **receive** data from **client application**.
Translation of allocated port is recorded. When data is sent to
initial port from **client application**, data is
received on allocated port and is delivered to one of the server
applications (160a-160c) from...
... The connection from one of the **client application**
is accepted on the **initial** port, after the **client**
application makes connection request. The **translation** of
the allocated port is recorded by associating the allocated port with
the application identifier...

...c) **Communication** providing **apparatus** between two computers

...the same port number without interfering with the operation and data
transfer allocated with each **application** and process. Redirects
communication to **alternate** ports establishing independent data
streams without an application's knowledge...

International Patent Class (Main): **G06F-015/16...**

...**H04J-003/02...**

...**H04L-001/00**

International Patent Class (Additional): **G06F-015/173...**

...**H04J-003/16...**

...**H04J-003/24**

Manual Codes (EPI/S-X): **T01-H07C5A...**

...**T01-S03...**

...**W01-A03...**

...W01-A06G3...

...W01-C05B3J...

...W02-K02...

...W02-K02E...

...W02-K02X

47/3,K/59 (Item 59 from file: 350) Links
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012981789 **Image available**

WPI Acc No: 2000-153642/200014

XRPX Acc No: N00-114625

**Data format converter for facsimile
communication apparatus**

Patent Assignee: CANON KK (CANO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000013580	A	20000114	JP 98172929	A	1998061	200014 B

Priority Applications (No Type Date): JP 98172929 A 19980619

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000013580	A		-30	H04N-001/32	

**Data format converter for facsimile
communication apparatus**

Abstract (Basic):

... digital network (104) and the second system data terminal (103)
and wireless, for communication. A **converter** converts the data
format used by the **first** and **second** communication
systems, **individually**.

... For **facsimile communication apparatus**.

...PHS is used for radio system, the transmission rate is improved. The
installation place of **communication apparatus** and data
terminal is not limited, by using TA of digital network. Since PHS
mobile

International Patent Class (Main): **H04N-001/32**

International Patent Class (Additional): **H04N-001/00...**

...**H04Q-007/38**

Manual Codes (EPI/S-X): **W01-B05A...**

...**W02-J...**

...**W02-J03C**

FACSIMILE COMMUNICATION DEVICE

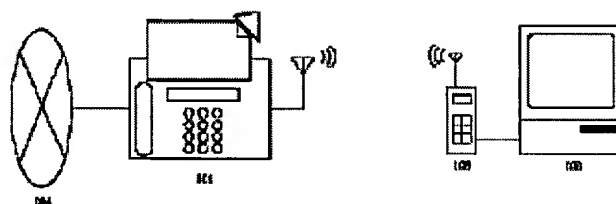
Patent number: JP2000013580
Publication date: 2000-01-14
Inventor: TSUCHIDA SHINJI; UCHIUMI AKIHIRO
Applicant: CANON KK
Classification:
- international: **H04N1/00; H04N1/32; H04Q7/38; H04N1/00; H04N1/32; H04Q7/38; (IPC1-7): H04N1/32; H04N1/00; H04Q7/38**
- european:
Application number: JP19980172929 19980619
Priority number(s): JP19980172929 19980619

Report a data error here

Abstract of JP2000013580

PROBLEM TO BE SOLVED: To enable mass data communication by converting the data format of data communication via a communication network and the data format of data communication through an information processing terminal and radio and making the information processing terminal communicate via the communication network by radio.

SOLUTION: When this facsimile communication device 101 receives a link channel connection request from a PHS slave unit 102, it confirms the free state of a radio channel for a link channel and starts call setting processing to a digital network 104. After that, when it receives a calling tone while calling a receiving user from the network 104 and receives a response signal from the receiving user, it notifies the content to the unit 102. Then, when it receives data to be transmitted from the unit 102, it transmits data to the network 104 and data communication is started. When data communication is finished and a disconnection signal is received from the unit 102, the connection to the network 104 is released.



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47/3,K/70 (Item 70 from file: 350) Links
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012360799 **Image available**
WPI Acc No: 1999-166906/199914
XRPX Acc No: N99-121618

**Integrated message system for transmitting message generated
by source to diverse communication devices**

Patent Assignee: ADAPTIVE MICRO SYSTEMS INC (ADAP-N)
Inventor: BILGRIEN S D; KUECHERER R K; LEVAC R A; PETERS M J
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 5872926 A 19990216 US 96656377 A 19960531 199914 B

Priority Applications (No Type Date): US 96656377 A 19960531
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 5872926 A 11 H04M-011/00

**Integrated message system for transmitting message generated
by source to diverse communication devices**

Abstract (Basic):

... **Appropriate protocol converters** (24a-24n)
are selected based on message parameters and information contained in a
file profile (42) located in each **protocol converter**. The
protocol converter inbox (84) then retrieves the message
from pending message directory (30), based on the information
... inbox (28) which provides the interface for receiving messages,
commands, and variable data from message **source** (12) and
response messages from **communication devices** (18a-18n).
Variable data **received** in inbox is then sent to a variable
database (29) which maintains a set of...
...is also sent to a directory (30) which verifies the authorization of
user or automated **source** to transmit message to
communication devices.
...
...For transmitting message generated by **source** to diverse
communication devices.
...
...Automatically converts a message generated by a variety of message
sources to **appropriate format** for communication
with diverse **communication devices**.

...
...Protocol converters (24a-24n

International Patent Class (Main): H04M-011/00

Manual Codes (EPI/S-X): T01-H07C1...

...T01-H07C5...

...T01-H07P...

...W01-A02...

...W01-A06G3...

...W01-A07G...

...W01-C02B7C...

...W01-C05B1C

47/3,K/19 (Item 19 from file: 350) Links

Derwent WPIX

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014592316 **Image available**

WPI Acc No: 2002-413020/200244

XRPX Acc No: N02-324506

**Customer host gateway for computerized
telephone call centers, translates requests received from
interactive voice response platform into formatted messages which are
transmitted to user interface of customer host computer**

Patent Assignee: MCI COMMUNICATIONS CORP (MCIC-N)

Inventor: CULLERS W R; UNDERHILL G L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6353608	B1	20020305	US 9898371	A	19980616	200244 B

Priority Applications (No Type Date): US 9898371 A 19980616

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6353608	B1		21	H04L-012/66	

**Customer host gateway for computerized
telephone call centers, translates requests received from
interactive voice response platform into formatted messages which are
transmitted to user interface of customer host computer**

Abstract (Basic):

... The **host connect application** (204b) facilitates to
receive the requests from interactive voice response platform (200) and
to **translates** the requests into **formatted** messages. The
screen scraper application (204c) facilitates to receive the formatted
messages and to transmit the **formatted** messages to the
appropriate location in user **interface** of customer **host**
computer.

... a) **Host connect application** server...

...For processing a customer call in a computerized **telephone** call
center...

...IVR **application** does not require any **modifications**, when
the customer **host** computer or the customer **host** computer
application changes or the **modifications** are
considerably easier to perform and less risky in terms of overall
system integration. It provides a user interface that enables rapid
development and deployment of new **host connect**

applications.

...

...Host connect application (204b

...Title Terms: **TELEPHONE;**

International Patent Class (Main): **H04L-012/66**

Manual Codes (EPI/S-X): **W01-C02B9...**

...**W01-C02G3B...**

...**W04-V04**

47/3,K/18 (Item 18 from file: 350) Links
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014615053 **Image available**
WPI Acc No: 2002-435757/200246
XRPX Acc No: N02-343007

**Configuration or diagnostics of communication
device, establishes communication channel to remote
diagnostic software using communication device**

Patent Assignee: CONEXANT SYSTEMS INC (CONE-N)
Inventor: BURD N C; RAASCH C F
Number of Countries: 097 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200237739	A2	20020510	WO 2001US48400	A	20011101	200246	B
AU 200232587	A	20020515	AU 200232587	A	20011101	200258	
EP 1332564	A2	20030806	EP 2001992113	A	20011101	200353	
			WO 2001US48400	A	20011101		
CN 1505868	A	20040616	CN 2001820691	A	20011101	200465	
AU 2002232587	A8	20050915	AU 2002232587	A	20011101	200569	

Priority Applications (No Type Date): US 2000706153 A 20001103

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200237739	A2	E	34	H04L-000/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200232587	A			H04L-000/00	Based on patent WO 200237739
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EP 1332564	A2	E		H04B-001/38	Based on patent WO 200237739
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

CN 1505868	A			H04B-001/38	
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AU 2002232587	A8			H04B-001/38	Based on patent WO 200237739
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**Configuration or diagnostics of communication
device, establishes communication channel to remote
diagnostic software using communication device**

Abstract (Basic):

... diagnostic system or software establishes a communication
channel to the remote diagnostic software using a **second
communication device**. The **second
communication device** in conjunction with the local

diagnostic software records and transmits the settings, configuration, or behavior data of the **first communication device** to the remote diagnostic software. The remote diagnostic software analyzes the information and determines desired **changes** to the configuration of the **first communication device**.

These **changes** are transmitted via the communication channel to the local diagnostic **software** and the changes implemented on the **first communication device**.

... 1) a method for diagnosing a **communication device**,
(...

...2) a method for achieving desired operation of a **communication device**,
(...

...3) for a DSL **communication device**.
...

...For utilizing communication channel to configure **communication devices** via **communication** channel from remote location...

...Easily and rapidly configures DSL **communication device**

...International Patent Class (Main): **H04L-000/00**

International Patent Class (Additional): **H04L-005/16**

Manual Codes (EPI/S-X): **T01-G08...**

...**T01-N02B1...**

...**T01-N02B2...**

...**W01-C05B8...**

...**W01-C08C3**

47/3,K/22 (Item 22 from file: 350) Links

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014423648 **Image available**

WPI Acc No: 2002-244351/**200230**

XRPX Acc No: N02-189137

Mobile communication system sends operation demand from portable telephone to remote PC, through wireless communication, for starting software application installed in PC

Patent Assignee: TOSHIBA KK (TOKE)

Inventor: KOBAYASHI K

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2001103568	A	20010413	JP 99280495	A	19990930	200230	B
US 6633759	B1	20031014	US 2000653949	A	20000901	200368	

Priority Applications (No Type Date): JP 99280495 A 19990930

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001103568	A		14	H04Q-007/38	
US 6633759	B1			H04Q-007/20	

Mobile communication system sends operation demand from portable telephone to remote PC, through wireless communication, for starting software application installed in PC

Abstract (Basic):

... Demands for **starting software application** installed in PC (1), is sent through wireless communication from portable **telephone** (2). **Similarly**, demand for **starting software application** installed in portable **telephone**, is output from PC. Display data output from the PC is **received** by **telephone** and displayed in its LCD screen (43).

... a) **Mobile communication apparatus;**
 (...

...For wireless communication between PC and portable **telephone**.

...to communicate with remote PC for e.g. PC placed at electric train through portable **telephone**.

...Portable **telephone** (2

...Title Terms: **TELEPHONE;**

International Patent Class (Main): **H04Q-007/20...**

...**H04Q-007/38**

International Patent Class (Additional): **G06F-013/00...**

...**H04L-012/28**

Manual Codes (EPI/S-X): **T01-C03C...**

...**T01-N01D3...**

...**W01-C05**

47/3,K/14 (Item 14 from file: 350) Links

Derwent WPIX

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015095620 **Image available**

WPI Acc No: 2003-156138/200315

XRFX Acc No: N03-123235

**Communication protocol prepares session setup that is
transmitted to remote machine that inspects and identifies session setup
that includes non-routable address**

Patent Assignee: INTEL CORP (ITLC); ELGEBALY H (ELGE-I); PHOMSOPHA K
(PHOM-I)

Inventor: ELGEBALY H; PHOMSOPHA B; ELEGBALY H; PHOMSOPHA K

Number of Countries: 101 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020152325	A1	20021017	US 2001837449	A	20010417	200315 B
WO 200284974	A2	20021024	WO 2002US11756	A	20020412	200315
GB 2392343	A	20040225	WO 2002US11756	A	20020412	200415
			GB 200326644	A	20031114	
AU 2002307311	A1	20021028	AU 2002307311	A	20020412	200433
TW 567699	A	20031221	TW 2002104261	A	20020307	200444
GB 2392343	B	20041201	WO 2002US11756	A	20020412	200479
			GB 200326644	A	20020412	
GB 2403626	A	20050105	GB 200326644	A	20020412	200504
			GB 200422627	A	20041012	
GB 2403627	A	20050105	GB 200326644	A	20020412	200504
			GB 200422628	A	20041012	
GB 2403626	B	20050216	GB 200326644	A	20020412	200513
			GB 200422627	A	20041012	
GB 2403627	B	20050216	GB 200326644	A	20020412	200513
			GB 200422628	A	20041012	
CN 1623310	A	20050601	CN 2002808394	A	20020412	200560
AU 2002307311	A8	20051013	AU 2002307311	A	20020412	200611

Priority Applications (No Type Date): US 2001837449 A 20010417

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20020152325	A1	17	G06F-015/16	
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WO 200284974	A2 E	H04L-029/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA
ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

GB 2392343	A	H04L-029/12	Based on patent WO 200284974
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AU 2002307311	A1	H04L-029/00	Based on patent WO 200284974
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TW 567699	A	H04L-029/02	
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GB 2392343	B	H04L-029/12	Based on patent WO 200284974
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GB 2403626	A	H04L-029/12	Div ex application GB 200326644
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GB 2403627	A	H04L-029/12	Div ex application GB 200326644
GB 2403626	B	H04L-029/12	Div ex application GB 200326644
GB 2403627	B	H04L-029/12	Div ex application GB 200326644
CN 1623310	A	H04L-029/12	
AU 2002307311	A8	H04L-029/12	Based on patent WO 200284974

Abstract (Basic):

... a session from a remote machine having a non-routable network address is transmitted to **another** remote machine through a **network translation device** that does not translate the session setup. The other remote machine is configured to inspect...

... 3) **Communication apparatus;**
 (...)

...Communication establishment between two endpoints of which one is internal and other is external to **network translation device**; and...

...5) **Apparatus** for establishing **communication** between two endpoints...

...Communication **protocol** for **initiating** a communication session through a **network translation device**.

...The communication between remote machine is established easily and efficiently using the communication **protocol** that supports several network address **translation** (NAT) devices and other translating access points without depending on special servers, proxies, etc., corresponding

Technology Focus:

... The communication **protocol conforms** to ITU H.323 standard.

International Patent Class (Main): **G06F-015/16...**

...**H04L-029/00...**

...**H04L-029/02...**

...**H04L-029/12**

International Patent Class (Additional): **H04L-029/06**

Manual Codes (EPI/S-X): **T01-N02A1...**

...**W01-A06F5...**

...**W01-A06F9...**

...**W01-A06G3**

? d s

Set	Items	Description
S1	879	S (EMAIL? OR VOICEMAIL? OR (E OR ELECTRONIC? OR VOICE?) ()MAIL? OR FAX OR FACSIMILE?) (3N) (DEVIC? OR APPARATUS? OR APPLIANC?)
S2	4944	S PAGER? OR ANSWER? ()SERVICE? OR (PAGING? OR BEEPING?) (2N) (DEVIC? OR APPLIANC? OR APPARATUS?) OR BEEPER?
S3	46093	S (COMMUNICAT? OR TELECOMMUNICAT? OR INTERCOMMUNICAT? OR ONLINE? OR MESSAG?) (2N) (DEVIC? OR APPLIANC? OR APPARATUS?)
S4	369841	S TELEPHONE? OR PHONE? OR CELLPHONE? OR POTS (2N) (DEVIC? OR APPLIANC? OR APPARATUS?)
S5	42965	S (NETWORK? OR TELECOM? OR WIRELESS? OR WIRE ()LESS OR CELLULAR? OR MOBILE? OR INTERNET?) (2N) (DEVIC? OR APPLIANC? OR APPARATUS?)
S6	27060	S PDA? ? OR BLACKBERRY? OR ELECTRONIC? ()ORGANIZER? OR DIGITAL? ()ASSISTANT?
S7	466011	S S1:S6
S8	66088	S FIRST? OR 1ST OR PRIMARY OR INITIAL? OR ORIGIN? OR LEADOFF? OR CHIEF OR INTRODUCTORY? OR HOST? OR MASTER?
S9	27731	S SENDER? OR SOURCE? OR INITIATING? OR INITIATOR? OR BEGIN? OR COMMENC? OR START?
S10	34138	S RECEIV? OR RECIPIENT? OR DESTINATION? OR ADDRESSEE?
S11	67858	S SECOND? OR 2ND OR ANOTHER OR SUBSIDIAR? OR AUXILIAR? OR DIFFERENT? OR ALTERNAT? OR SLAVE?
S12	110616	S APPLICATION? OR SOFTWARE? OR INTERFACE? OR GUI? ? OR UI
S13	51999	S MANNER? OR TYPE? OR CATEGOR? OR CLASSIFICAT? OR PRIORIT? OR HIERARCH? OR RANK???
S14	34163	S RULE? ? OR PROTOCOL? OR FORMAT? OR MODALIT? OR FUNCTIONALIT?
S15	504	S (ORGANIS? OR ORGANIZ? OR STRUCTUR? OR MENU?) (2N) (PREFERENC? OR CUSTOMI? OR PERSONALI? OR INDIVIDUALI? OR CHARACTERISTIC?)
S16	64348	S CONFORM? OR CONVERSION? OR MODIF? OR CHANGE? OR CHANGING OR MATCH? OR SIMILAR?
S17	9447	S SYNCHRON? OR RECONCIL? OR HARMON? OR CONGRUEN?
S18	46701	S ALTER? OR TRANSFORM? OR APPROPRIAT? OR COMPATIB? OR EQUIVALEN? OR EQUAL? OR TRANSLAT?
S19	38	S (AUTOMATIC? OR SPONTAN?) (2N) EXECUT? OR IDENTICALIZ? OR IDENTICALIS?
S20	40426	S AMEND? OR REVIS? OR ADAPT? OR CONVERT? OR MIMIC? OR IMITAT?
S21	4642	S COORDINAT? OR CONTINUIT?
S22	53888	S USER? OR CLIENT? OR CUSTOMER? OR ENDUSER? OR SURFER? OR NETIZEN?
S23	20643	S ACCOUNT? (2N) HOLDER? OR PATRON? OR MEMBER? OR SUBSCRIBER? OR WEBUSER?
S24	26096	S PARTY? OR PERSON? ? OR INDIVIDUAL? OR PARTIE? OR PRINCIPAL?
S25	2008	S S7 AND S8:S9(5N) (S1:S7 OR S12:S15) AND S10:S11(5N) (S1:S7 OR S12:S15)
S26	412	S S7 AND S8:S9(5N) S22:S24 AND S10:S11(5N) S22:S24
S27	43	S S25 AND S26
S28	392	S S25:S26 AND S16:S21(7N) S12:S15
S29	622	S S25:S26 AND S1:S7(7N) S12:S15
S30	189	S S28 AND S29
S31	14	S S25:S26 AND S1:S7(5N) S12:S15 AND S12:S15(5N) S16:S22:S24 AND S10:S11(5N) S22:S24
S32	232	S S27 OR S30 OR S31
S33	143	S S32 AND PY<2002
S34	145	S S32 NOT PY>2001
S35	145	S S33:S34
S36	107	RD (unique items)

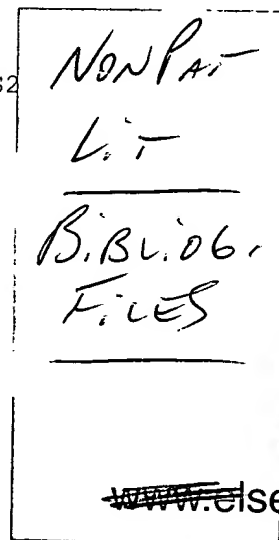
; show files

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[File 34] **SciSearch(R) Cited Ref Sci** 1990-2006/Feb W4
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[File 35] **Dissertation Abs Online** 1861-2006/Feb
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[File 65] **Inside Conferences** 1993-2006/Mar 06
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[File 94] **JICST-EPlus** 1985-2006/Dec W2
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[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2006/Feb
(c) 2006 The HW Wilson Co. All rights reserved.

[File 111] **TGG Natl.Newspaper Index(SM)** 1979-2006/Feb 27
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[File 144] **Pascal** 1973-2006/Feb W2
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[File 239] **Mathsci** 1940-2006/Apr
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[File 256] **TecInfoSource 82-2006/Feb** (c) 2006 Info.Sources Inc
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36/3,K/86 (Item 2 from file: 94) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

JICST-EPlus

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04868814 JICST Accession Number: 01A0359568 File Segment: JICST-E

Proposal of SIP-based Environment-Adaptive Personal Communication Architecture.

KAMIOKA EIJI (1); YAMADA SHIGEKI (1)

(1) Ministry of Education, Culture, Sports, Sci. and Technol., National Inst. Informatics, JPN

Joho Shori Gakkai Kenkyu Hokoku , 2001 , VOL.2001,NO.13(MBL-16) , PAGE.1-7 , FIG.5, REF.14

Journal Number: Z0031BAO ISSN: 0919-6072

Universal Decimal Classification: 621.394/.395 681.327.2

Language: Japanese Country of Publication: Japan

Document Type: Journal

Article Type: Original paper

Media Type: Printed Publication

, 2001

Abstract: This paper proposes a new **type** of communication, called EAPEC(Environment-**Adaptive** Personal Communication) for ubiquitous computing networks. EAPEC accepts a communication message from a **sender**, automatically selects the most **appropriate communication device** and media **type** for a **receiver**, **converts** the **sender's** message into the one acceptable to the receiver, and finally forwards the converted message...

36/3,K/7 (Item 7 from file: 2) Links

INSPEC

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07670042 **INSPEC Abstract Number:** B2000-09-6210D-016, C2000-09-7410F-055

Title: Improving telecom service access convergence using software agents

Author Palola, M.; Heikkinen, M.; Kaksonen, R.

Author Affiliation: VTT Electron., Oulu, Finland

Conference Title: Proceedings of the 1st Asia-Pacific Conference on IAT. Intelligent Agent Technology Systems, Methodologies, and Tools p. 448-56

Editor(s): Liu, J.; Zhong, N.

Publisher: World Scientific, Singapore

Publication Date: 1999 **Country of Publication:** Singapore xiii+505 pp.

ISBN: 981 02 4054 6 **Material Identity Number:** XX-1999-02419

Conference Title: Proceedings of the 1st Asia-Pacific Conference on Intelligent Agent Technology

Conference Date: 14-17 Dec. 1999 **Conference Location:** Hong Kong

Language: English

Subfile: B C

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Abstract: ...access to different telematic and other network services, a solution for human-agent communication with **different types** of hand-held devices and software is presented. Support for hand-held and often **wireless devices** ranging from Personal **Digital Assistants (PDA)** to cellular **phones** is increasingly important in Computer Telephony Integration (CTI). In CTI, service providers implement services in a computer or **telephone** network, or their combination, and the customer may access the services against a fee. The... ..in a terminal-independent manner. The platform enables the customer to communicate with his personal **software** agent residing in the **network** using **alternative devices** and **software**, and to access the CTI services available in the agent network. Furthermore, the agent may... ..the user using, e.g., e-mail, short message service (SMS) of the GSM mobile **phone** network or a graphical user **interface**. Service access convergence together with software agent technology has several advantages in a CTI environment... ..well as integration of computer and telecom networks. It also makes service construction device and **protocol** independent, and makes the **start-up** of new services easier because of a larger customer base achieved by terminal independence.

Identifiers: ...**wireless devices**;Personal **Digital Assistants**;**PDA**;cellular **phones**;GSM mobile **phone** network

1999

36/3,K/54 (Item 9 from file: 8) [Links](#)

Ei Compendex(R)

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03000004 **E.I. Monthly No:** EIM9012-049913

Title: Manufacturing message handling.

Author: Benchetrit, U.; Lenž, E.

Corporate Source: Technion - Israel Inst of Technology, Haifa, Isr

Conference Title: Proceedings of Manufacturing International '90. Part 3: International Aspects of Manufacturing

Conference Location: Atlanta, GA, USA **Conference Date:** 19900325

E.I. Conference No.: 13325

Source: Proc Manuf Int 90 Part 3 Int Aspects Manuf. Publ by American Soc of Mechanical Engineers (ASME), New York, NY, USA. p 75-79

Publication Year: 1990

ISBN: 0-7918-0468-2

Language: English

Abstract: ...the elements in the cell. Since these elements are usually from various manufacturers, they have **different** communication **protocols** and concepts. In the J. W. Ullmann Center for Manufacturing Systems and Robotics, research is... ..define and test a new communication approach for simplifying the integration of multivendor intelligent devices. **Starting** at the device level, each **device communicates** with a task. The task is **software** written to be a **protocol translator**. That is, the task **communicates** with the **device** in its specific device dependent **protocol** and communicates with the server in the unified protocol for task to task communication. In...

Identifiers: **DEVICE DRIVER; MESSAGE STRUCTURE; REAL TIME CONTROL**

36/3,K/57 (Item 12 from file: 8) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Ei Compendex(R)

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01544463 E.I. Monthly No: EI8407063379 E.I. Yearly No: EI84022515

Title: INTERCONNECTING DEVICES OF DIFFERENT COMMUNICATION PROTOCOLS.

Author: Pascoe, R. A.

Source: IBM Technical Disclosure Bulletin v 26 n 7A Dec 1983 p 3483-3484

Publication Year: 1983

CODEN: IBMTAA **ISSN:** 0018-8689

Language: ENGLISH

Title: INTERCONNECTING DEVICES OF DIFFERENT COMMUNICATION PROTOCOLS.

Abstract: For interconnecting data processing devices working in a communication system having a first communication protocol with data processing devices working in another communication system having a second communication protocol, an interchange device is provided. This interchange device converts messages from one attachment protocol to another attachment protocol operating as a store and forward node. Therefore, it is possible to combine already existing networks with newly developed networks operating in accordance with another communication protocol. Using more than one interchange device makes more than two different systems able to communicate...

36/3,K/94 (Item 2 from file: 144) Links

Pascal

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13768530 PASCAL No.: 98-0481169

Hardware/software partitioning for multifunction svstems

KALAVADE A; SUBRAHMANYAM P A

Bell Labs, Murray Hill, NJ 07974, United States; Computer System
Laboratory, Stanford University, Stanford, CA 94305, United States

Journal: IEEE transactions on computer-aided design of
integrated circuits and systems, **1998**
, 17 (9) 819-837

. Language: English

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1998

... optimizing the design of multifunction embedded systems such as
multistandard audio/video codecs and multisystem **phones**. Such
systems run a prespecified set of **applications**, and any "one" of the
applications is selected at a run time, depending on system...

... not be efficient to design for each application separately. This is
attributed to two factors. **First**, considering each
application in isolation can lead to application-specific decisions
that do not necessarily lead to the best overall system solution.
Second, these **applications** typically tend to have several
commonalities among them, and considering applications independently may
lead to inconsistent mappings of common tasks in **different**
applications. Our approach is to optimize jointly across the set of
applications while ensuring that each...

... multifunction embedded system. The first step in our methodology is to
identify nodes that represent **similar functionality** across
different applications. Such "common" nodes are characterized
by several metrics such as their repetitions, urgency, concurrency, and...

... the mapping decisions in more critical applications are allowed to
influence those in less critical **applications**. We demonstrate how
this is achieved by **modifying** an existing partitioning algorithm
(GCLP) used to partition single-function systems. Our **modified**
algorithm considers global preferences across the **application** set
as well as the preference of each individual application to generate an
efficient overall...

36/3,K/102 (Item 3 from file: 256) [Links](#)

TecInfoSource 82-2006/Feb

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01062669 **Document Type:** Product

Product Name: Wireless Document Management Suite (WDMS) (062669)

Matrix Logic Corp (710091)

695 De Long Ave #101

Novato , CA 94945 United States

Telephone: (415) 893-9897

Record Type: Directory

Contact: Sales Department

Revision Date: 20020228

...reach of a document repository by allowing access to critical information from a handheld or **wireless device**. Users can access their documents without **starting** up a laptop, and IS staff can deploy wireless document access to large numbers of workers using various devices, all from one **software** suite. Wireless Document Management Suite **converts** requests to and from a **wireless device**, so that any modifications to the DOCS repository are instantly seen on the handheld. Connectivity is from many **types of phones, pagers**, Palm devices, and PocketPCs. Document libraries can be searched. Documents can be received and e-mailed or faxed. Intuitive document viewing is available through some handheld devices, including **BlackBerry**s, and documents are rendered as needed for viewing on the small screen. Users can view rendered e-mail attachments or document references, and a notification module permits **users** to subscribe and **receive** alerts regarding changes to projects, quick searches, and documents via e-mail or on the...

47/3,K/130 (Item 130 from file: 350) Links

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010012599 **Image available**

WPI Acc No: 1994-280310/199435

Related WPI Acc No: 1995-157069; 1995-225836; 1995-294609; 1995-383239;
1996-097792; 1996-260111; 1996-260116; 1996-278120; 1997-119282

XRFX Acc No: N94-220925

**Multifunction communication system for use with personal
computer - includes packet protocol for communications between software
components running on personal computer and local hardware components
over serial communications link**

Patent Assignee: SHARMA R (SHAR-I); MULTI-TECH SYSTEMS INC (MULT-N)

Inventor: DAVIS J P; GUNN T D; LI P; MAITRA S; SHARMA R; THANAWALA A; YOUNG
S

Number of Countries: 020 Number of Patents: 017

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2104701	A	19940709	CA 2104701	A	19930824	199435 B
EP 630141	A2	19941221	EP 93403164	A	19931223	199504
US 5452289	A	19950919	US 932467	A	19930108	199543
US 5471470	A	19951128	US 932467	A	19930108	199602
			US 94289294	A	19940811	
US 5500859	A	19960319	US 932467	A	19930108	199617
			US 94289304	A	19940811	
EP 630141	A3	19960703	EP 93403164	A	19931223	199636
US 5559793	A	19960924	US 932467	A	19930108	199644
			US 94289305	A	19940811	
US 5574725	A	19961112	US 932467	A	19930108	199651
			US 94289295	A	19940811	
US 5577041	A	19961119	US 932467	A	19930108	199701
			US 94289294	A	19940811	
			US 95488183	A	19950607	
US 5592586	A	19970107	US 932467	A	19930108	199708
			US 94289297	A	19940811	
US 5600649	A	19970204	US 932467	A	19930108	199711
			US 95527849	A	19950914	
US 5673257	A	19970930	US 932467	A	19930108	199745
			US 95428904	A	19950425	
US 5673268	A	19970930	US 932467	A	19930108	199745
			US 94289296	A	19940811	
JP 9238200	A	19970909	JP 93251131	A	19930913	199746
US 5764627	A	19980609	US 932467	A	19930108	199830
			US 95488183	A	19950607	
			US 96636582	A	19960423	
US 5790532	A	19980804	US 932467	A	19930108	199838
			US 95527952	A	19950914	
CA 2104701	C	20021112	CA 2104701	A	19930824	200302

Priority Applications (No Type Date): US 932467 A 19930108; US 94289294 A
19940811; US 94289304 A 19940811; US 94289305 A 19940811; US 94289295 A
19940811; US 95488183 A 19950607; US 94289297 A 19940811; US 95527849 A

19950914; US 95428904 A 19950425; US 94289296 A 19940811; US 96636582 A
19960423; US 95527952 A 19950914

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2104701	A	161		H04L-005/22	
EP 630141	A2 E	99		H04M-003/42	
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE					
US 5452289	A	79		H04B-003/23	
US 5471470	A	79		H04J-003/17	Div ex application US 932467
US 5500859	A	81		H04J-003/17	Div ex application US 932467 Div ex patent US 5452289
EP 630141	A3			H04L-005/22	
US 5559793	A	80		H04B-003/23	Div ex application US 932467 Div ex patent US 5452289
US 5574725	A	80		H04J-003/12	Div ex application US 932467 Div ex patent US 5452289
US 5577041	A	80		H04M-011/00	Cont of application US 932467 Div ex application US 94289294 Cont of patent US 5452289 Div ex patent US 5471470
US 5592586	A	79		G10L-009/00	Div ex application US 932467 Div ex patent US 5452289
US 5600649	A	80		H04J-003/17	Div ex application US 932467 Div ex patent US 5452289
US 5673257	A	79		H04B-003/23	Div ex application US 932467 Div ex patent US 5452289
US 5673268	A	79		H04J-003/12	Div ex application US 932467 Div ex patent US 5452289
JP 9238200	A	61		H04M-011/00	
US 5764627	A			H04M-001/00	Cont of application US 932467 Cont of application US 95488183 Cont of patent US 5452289 Cont of patent US 5577041
US 5790532	A			H04J-003/16	Div ex application US 932467 Div ex patent US 5452289
CA 2104701	C E			H04L-005/22	

...Abstract (Basic): computer. The personal computer executes software to communicate with the communications module through the communications **interface** and is operable for **initiating** a **telephone** call to a remote site in response to the commands by the local user. It...

...Abstract (Equivalent): A method of maintaining a modem connection over a **telephone** line connection which includes a cellular **telephone** link connection, comprising the steps of...

...calling a remote modem from a local modem over a **telephone** line connection, line a portion of which includes a cellular **telephone** link connection...

- ...transmitting data packets over the **telephone** line connection from the local modem of a local computer at a local site to...
- ...periodically transmitting from the local modem a supervisory packet over the **telephone** line connection...
- ...periodically send the cellular supervisory packet and continuing to maintain the modem connection over the **telephone** line if the remote site had acknowledged receipt of the cellular supervisory packet within a...
- ...disconnecting the modem connection over the **telephone** line if the remote site fails to acknowledge the receipt of the cellular supervisory packet...
- ...A **communications device**, comprising...**conversion** means connected to the voice **interface** means for **converting** the local voice signals into outgoing digital voice data and for converting incoming digital voice...a) initializing a communication port to send or **receive** a **telephone** call, fax, or computer data over a communications line configuring a personal computer to send and **receive telephone** calls over the communication line to communicate voice, computer data, compressed voice or fax data...
- ...e) providing a terminal emulation when connecting the personal computer to a remote computing **device** over the **communication** line
 - ...**telephone** line interface means for full-duplex transmission and reception of outgoing analog voice signals and...
- ...voice analog-to-digital **conversion** means connected to the voice **interface** for **converting** the local voice signals into outgoing digital voice data...
- ...line analog-to-digital conversion means connected to the **telephone** line **interface** means for **converting** the incoming analog voice signals into converted incoming digital voice data...line digital-to-analog conversion means connected to the **telephone** line **interface** means for **converting** the acoustic echo cancelled outgoing digital voice data into outgoing analog voice signals...
- ...**telephone** line interface means for connection to a **telephone** line...
- ...full-duplex **conversion** means connected to the voice **interface** means for **converting** the local voice signals into outgoing digital voice data and for converting incoming digital voice...
- ...digital signal processor means connected to the full-duplex **conversion** means the data **interface** means and the **telephone** interface means for compressing the outgoing digital

...**telephone** line interface means for connection to a **telephone** line and for full duplex digital communication over the **telephone** line...

...full-duplex **conversion** means connected to the voice **interface** means for **converting** the local voice signals into outgoing digital voice data and for converting incoming digital voice...main control means connected to the **telephone** line interface means, connected for **receiving** the compressed outgoing digital voice data packets from the digital signal processor means, connected for...

...packets to produce multiplexed outgoing data and for sending the multiplexed outgoing data to the **telephone** line interface means for transmission over the **telephone** line: and...

...the main control means further operable for **receiving** multiplexed incoming data from the **telephone** line interface means, the multiplexed incoming data containing incoming computer digital data packets multiplexed with...

...peripheral data store, comprising a communications module connected to the personal computer, the module comprising **communications interface device** connected for **communicating** to the personal computer for transferring data between the personal computer and the communications module; a **telephone** line interface device for connection to a **telephone** line and for full duplex digital communication over the **telephone** line; a **telephone** voice interface device for **receiving** local voice signals from a local user and for conveying remote voice signals from a...

...produce multiplexed outgoing digital data and for sending the multiplexed outgoing digital data to the **telephone** line interface device for digital transmission over the **telephone** line; the main control device further for receiving multiplexed incoming digital data from the

telephone line interface device

from the **telephone** line, the multiplexed incoming digital data containing incoming computer digital data packets multiplexed with the **communications interface device** and for sending the compressed incoming digital voice data packets to the compression means, each....

...personal computer operable for executing software to communicate with the communications module through the communications **interface** and operable for **initiating** a **telephone** call to a remote site in response to the commands by the local user and for causing the main control **device** of the **communications** module to perform multiplexing and demultiplexing; and the personal computer further operable for receiving and...

...International Patent Class (Main): H04J-003/12...

...H04J-003/16...

...H04J-003/17...

...H04L-005/22...

...H04M-001/00...

...H04M-003/42...

...H04M-011/00

International Patent Class (Additional): G06F-013/00...

...G06F-015/20...

...H04M-011/06...

...H04N-001/00

Manual Codes (EPI/S-X): T01-C08A...

...T01-H07B...

...T01-H07C1...

...W01-A06E1...

...W01-A06G2...

...W01-A06X...

...W01-C01C7...

...W01-C02B7C...

...W01-C05B1C...

...W01-C05B3B...

...W01-C08E...

...W02-J08

47/3,K/120 (Item 120 from file: 350) Links
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010299257 **Image available**
WPI Acc No: 1995-200518/199526
XRPX Acc No: N95-157484

**Portable communication appts for personal digital
assistant - uses application program to access first
or second interface circuit to generate command to control
operation of corresp communication circuit**

Patent Assignee: ETE INC (ETEE-N)

Inventor: BERNARD M A

Number of Countries: 059 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9514275	A1	19950526	WO 94US13037	A	19941114	199526 B
AU 9511768	A	19950606	AU 9511768	A	19941114	199538
US 5497339	A	19960305	US 93152492	A	19931115	199615
			US 94284396	A	19940802	
US 5675524	A	19971007	US 93152492	A	19931115	199746
			US 95489823	A	19950613	

Priority Applications (No Type Date): US 94284396 A 19940802; US 93152492 A 19931115; US 95489823 A 19950613

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 9514275	A1	E 76	G06F-013/00	
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Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE
ES FI GB GE HU JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW NL NO NZ PL
PT RO RU SD SE SI SK TJ TT UA UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC
MW NL OA PT SD SE SZ

AU 9511768	A		G06F-013/00	Based on patent WO 9514275
US 5497339	A	36	G06F-003/00	CIP of application US 93152492
US 5675524	A	21	G06F-001/16	Cont of application US 93152492

**Portable communication appts for personal digital
assistant - ...**

**...uses application program to access first or second
interface circuit to generate command to control operation of
corresp communication circuit**

**...Abstract (Basic): The communication device (102A) for a
personal digital assistant (PDA) (102B) connects
to a serial port (701) on the PDA through which the
communication device provides the user of the PDA
with access to multiple communication media e.g telephone modem
(114), a global positioning system engine (120), pocket radio (124) or**

cellular **telephone** (126). Data from the **PDA** is directed to a decoder that routes the data to the **appropriate** communication medium, while data from the communication media are multiplexed onto a single serial **interface** of the **PDA**.

...

...The **communications device** also provides a pass-through serial **interface** (110) that allows other external **devices** to **communicate** directly with the serial port of the **PDA**. The **communication device** can upload **software** to the **PDA** that facilitates communications between the **PDA** and the **communications device**, and allows the **PDA** to control the operation of the **communication device**.

...

...USE/ADVANTAGE - Providing computer with multiple integrated communications media e.g **phone** modem, cellular **telephone**, packet radio and global positioning system engine. **Interfaces** with personal **digital assistant** (**PDA**) to increase functionality of **PDA**.

...Abstract (Equivalent): A personal **digital assistant** cradle comprising...

...a base which provides a supporting surface for a personal **digital assistant**;

...

...a fixed securing **member** extending from a **first** end of said base...

...a movable securing **member** extending from a **second** end of said base opposite said **first** end, said movable securing **member** rotatable movable between at least two positions relative to said base, said movable securing member **adapted** to allow insertion of said personal **digital assistant** in a **first** of said at least two positions, and to retain said personal **digital assistant** in a **second** of said at least two positions, wherein in said second of said at least two positions, said personal **digital assistant** is secured on said base between said fixed and said movable securing members; and...

...a communications system housed within said base for providing **alternative** communication capabilities for said personal **digital assistant** when said personal **digital assistant** is retained in said personal **digital assistant** cradle...

...a palm computer comprising at least one **application** program and an **application** server, wherein said **application** server is coupled in communication with said **application** program and generates data packets in response to requests issued by said at least

one **application** program; and...

...a communication server coupled to said **application** server via an **interface**, said communication server having a packet **interface** which receives data packets transferred by said **application** server, said communication server further having a packet distributor coupled to said packet **interface** which receives data packets from said packet **interface**, and a plurality of generic emulators coupled to said packet distributor, wherein said packet distributor transfers said data packets received from said packet **interface** to an **appropriate** one of said generic emulators; and...

...a plurality of integral **communications devices**, each of said integral **communication devices** coupled to a corresponding one of said plurality of generic emulators, wherein said generic emulators...

...said data packets received from said packet distributor in accordance with specific requirements of said **communication device** coupled thereto, and wherein said generic emulators transfer said reformatted data packets to said corresponding **communication device**.

...Title Terms: **INTERFACE**;

International Patent Class (Main): **G06F-001/16**...

...**G06F-003/00**...

...**G06F-013/00**

Manual Codes (EPI/S-X): **T01-H07C**...

...**T01-M06A1**...

...**W01-C01D3A**...

...**W01-C01D3C**...

...**W01-C05B3A**...

...**W02-C03C1E**

47/3,K/41 (Item 41 from file: 350) Links

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013872016 **Image available**

WPI Acc No: 2001-356228/200138

XRPX Acc No: N01-258864

Method for relaying communication between parties having different telecommunication devices, e.g. to enable telephone stations, text telephones, two-way pagers to communicate with one another even when one party does not answer

Patent Assignee: AT & T CORP (AMTT)

Inventor: DOWENS J P; RUPERT A J; WATTENBARGER B L

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
CA 2281147	A1	20010226	CA 2281147	A	19990826	200138	B
CA 2281147	C	20021210	CA 2281147	A	19990826	200305	

Priority Applications (No Type Date): CA 2281147 A 19990826

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2281147	A1	E	30	H04M-003/42	
CA 2281147	C	E	-	H04M-003/42	

Method for relaying communication between parties having different telecommunication devices, e.g. to enable telephone stations, text telephones, two-way pagers to communicate with one another even when one party does not answer

Abstract (Basic):

... The **telecommunication relay device** (116) relays **communication** from a **first party** to at least one **second party**, where the **parties** have **different** terminals such as **telephone stations**, **text telephones**, **two-way pagers**, **personal digital assistants** with communication capabilities and data network terminals. The **telecommunication relay device** converts **text received** from text terminals into voice for voice terminals and **converts** voice to text and vice versa. The method involves: receiving a **first** contact from the **first party**; at least one of leaving a **first** message for the **second party**, outputting a **second** message **received** from the **second party**, or **initiating** a **second** contact to the **second party**; and leaving a third message for the **second party** if the **second party** does not answer the **second** contact, wherein the first message is

saved without **conversion**.

... The **telecommunication relay device** also permits the **first party** to leave messages for other **parties**. For example, the **first party** may send an e-mail message using a **telephone** station or **receive** an e-mail using a **telephone** station. In addition, the **telecommunication relay device** may open a private chat room to allow communication between data network terminals and **telephone** stations, for example. The **telecommunication relay device** may also provide conferencing capability where the conferees may use different **type** terminals. An INDEPENDENT CLAIM is included for a **telecommunication relay device** for implementing the above method...

...For relaying communication between **parties** having **different type** telecommunication terminals to enable **telephone** stations, cellular **telephones**, text **telephones**, two-way **paggers**, personal **digital assistants** with communication capabilities and data network terminals to communicate with one another...

...The drawing shows a block diagram of the **telecommunication relay device**.

...**telecommunication relay device** (116

...Title Terms: **TELEPHONE**;

International Patent Class (Main): **H04M-003/42**

International Patent Class (Additional): **H04L-012/54**...

...**H04Q-007/32**

Manual Codes (EPI/S-X): **T01-H07C1**...

...**T01-H07C5E**...

...**W01-A06E1**...

...**W01-A06G2**...

...**W01-A06X**...

...**W01-C02B1**...

...**W01-C02B7**...

...**W01-C05B1A**...

...**W01-C05B3**...

...**W04-V04A**...

...**W04-V04C**